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BOOK

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VERSION B  
BOOK No. \_\_\_\_\_  
VOLUME I  
DATE 2/85

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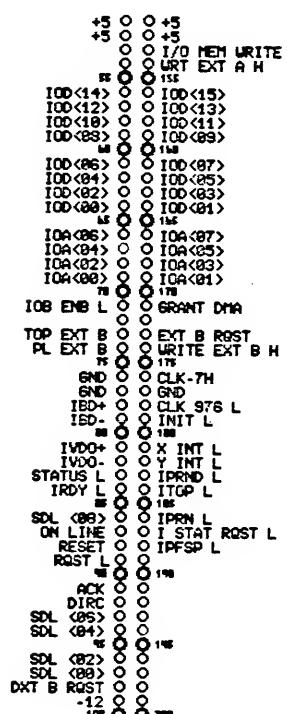
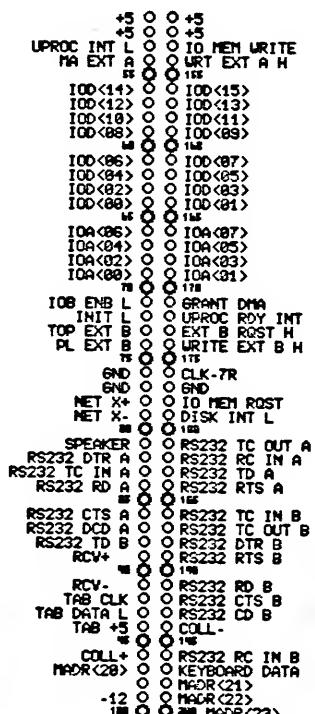
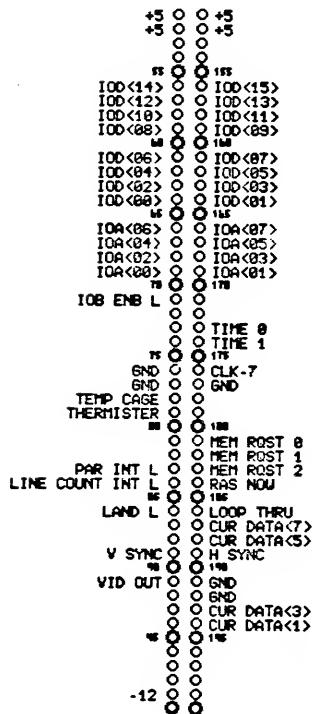
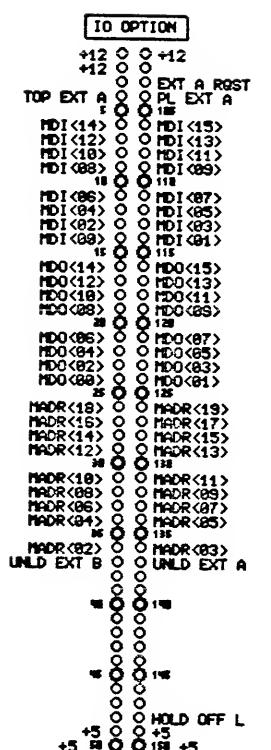
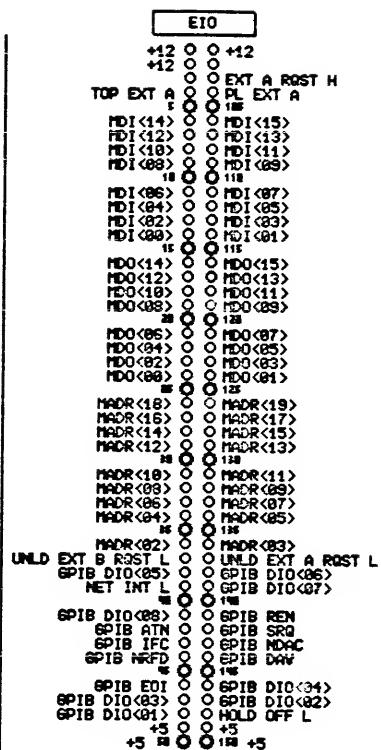
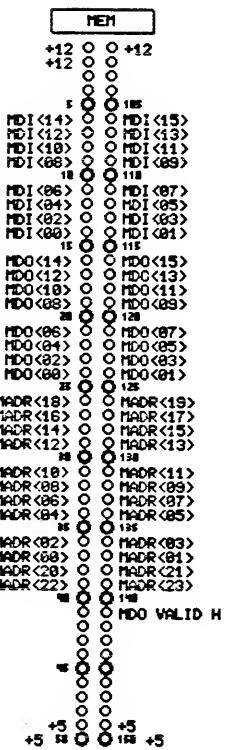
P E T I T E (T2)

# P.C. BOARD SCHEMATIC BOOK DIRECTORY

VOLUME I

**PERO**

# PETITE REVISION CONTROL SHEET



**CPU OPTION**

+12 ○ ○ +12  
+12 ○ ○  
○ ○  
○ ○ 18  
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MR MA ○ ○ HOLD OFF L  
+5 ○ ○ +5  
+5 ○ ○ 18 +5

**CPU**

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MR MA ○ ○ HOLD OFF L  
+5 ○ ○ +5  
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+5 ○ ○ +5  
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LA 15 ○ ○ TIME 0  
LB 15 ○ ○ TIME 1  
GND ○ ○ CLK-7R  
GND ○ ○ GND  
IO MEM ROST  
R15 ○ ○ 18  
MRQST 0 ○ ○  
MRQST 1 ○ ○  
18 ○ ○ 18  
R0 ○ ○ 18  
BPC 2 ○ ○ BPC 3  
BPC 8 ○ ○ BPC 1  
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EN CPU M CNT L ○ ○ CACHE ON  
TST ○ ○ WAIT  
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ARITH Y ○ ○  
-12 ○ ○

+5 ○ ○ +5  
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LB 15 ○ ○ TIME 1  
GND ○ ○ CLK-7  
GND ○ ○ GND  
TEMP ○ ○ IO MEM ROST  
R15 ○ ○ DISK INT L  
18 ○ ○ 18  
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MRQST 1 ○ ○ MEM ROST ST1  
PAR INT L ○ ○ MEM ROST ST2  
LINE COUNT INT L ○ ○ RAS NOW  
18 ○ ○ 18  
RD ○ ○ X INT L  
Y INT L ○ ○  
BPC 2 ○ ○ BPC 3  
BPC 8 ○ ○ BPC 1  
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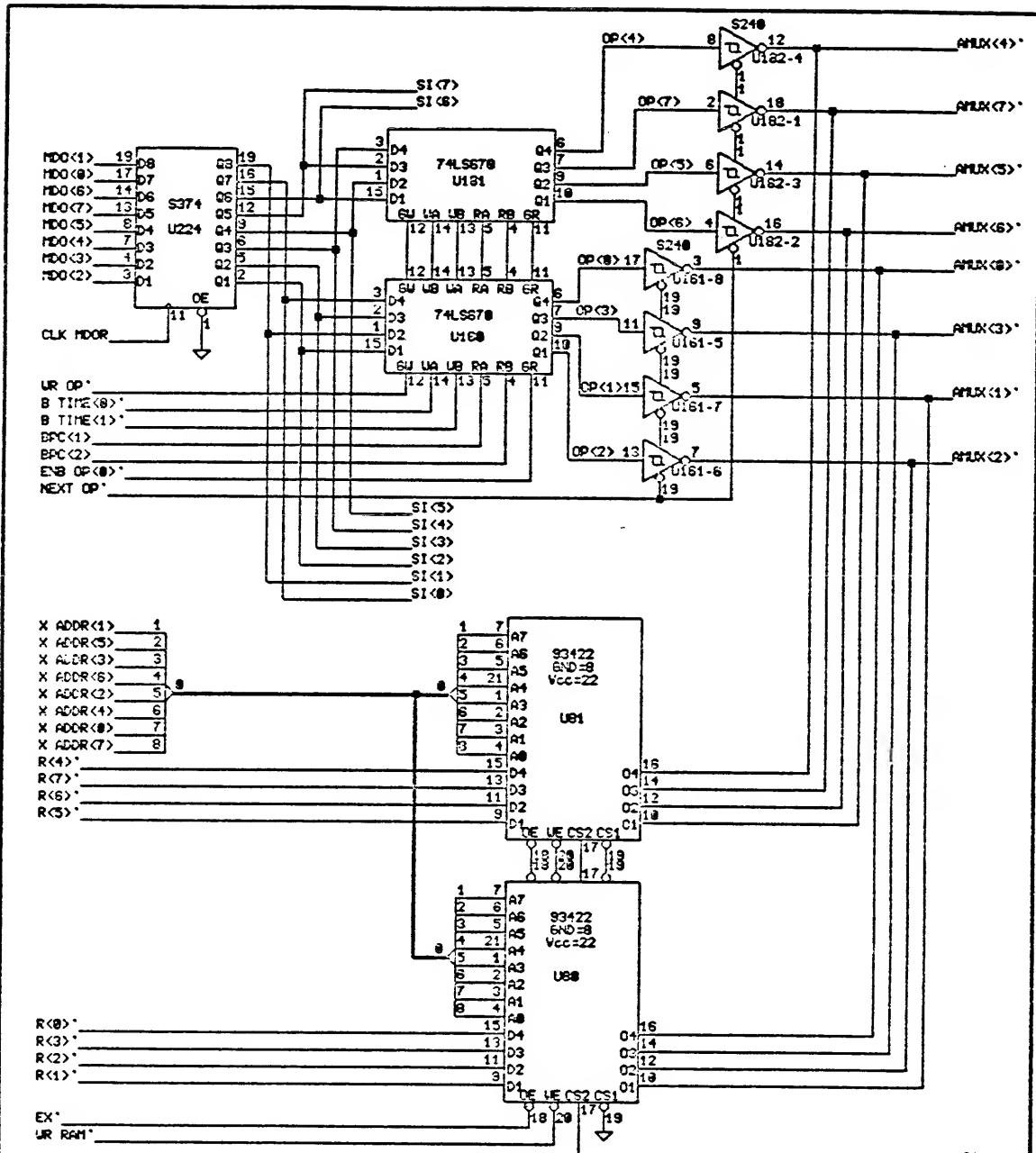
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NETX+ 5 ○ ○ 6 NET R-	RS232 RTS A 7 ○ ○ 8 RS232 DTR A	RS232 CTS B 9 ○ ○ 10 RS232 DTR B
NETR+ 9 ○ ○ 10 +12	RS232 CTS A 11 ○ ○ 12 RS232 TC OUT A	SND 11 ○ ○ 12 RS232 TC OUT B
GND 11 ○ ○ 12	RS232 DCD A 13 ○ ○ 14 RS232 TC OUT B	RS232 DCD B 13 ○ ○ 14 RS232 TC OUT B
13 ○ ○ 14		17 ○ ○ 18
15 ○ ○ 16		21 ○ ○ 22
		23 ○ ○ 24
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SERIAL 8	STREAMER	VIDEO
+5 28 ○ ○ 1 GND	GND 1 ○ ○ 2 SDL(8)	
IOD<87> 19 ○ ○ 2 IOD<87>	GND 3 ○ ○ 4 SDL(7)	
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IOD ENS L 11 ○ ○ 19 GND	GND 19 ○ ○ 20 ROST L	
	GND 21 ○ ○ 21 RESET	
	GND 22 ○ ○ 22 XFER	
	GND 23 ○ ○ 23 ACK	
	GND 24 ○ ○ 24 RDY	
	GND 25 ○ ○ 25 EXC	
	GND 26 ○ ○ 26 DIRC	
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		VID GND

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GPIB DIO<84> 7 ○ ○ 8 GPIB REM	H SYNC 7 ○ ○ 9 LAND L
GPIB EDI 9 ○ ○ 10 GND	GND 9 ○ ○ 10 KBD DATA
GPIB DAV 11 ○ ○ 12 GND	GND 11 ○ ○ 12 GND
GPIB NRFD 13 ○ ○ 14 GND	TAB DATA 13 ○ ○ 14 GND
GPIB NDAC 15 ○ ○ 16 GND	
GPIB IFC 17 ○ ○ 18 GND	
GPIB SRD 19 ○ ○ 20 GND	
GPIB ATN 21 ○ ○ 22 GND	
GND 23 ○ ○ 24	
GPIB DIO<85> 25 ○ ○ 26	

DDS
+5V 1 ○ ○ 2 GND
GND 3 ○ ○ 4 DIAG INC
GND 5 ○ ○ 5 BOOT SU L
GND 7 ○ ○ 6 GND
4 ○ ○ 8
11 ○ ○ 12
13 ○ ○ 14

PRINTER
IVDO+ 1 ○ ○ 2 GND
CLK 976 3 ○ ○ 4 GND
STATUS L 5 ○ ○ 6 GND
IDRM L 7 ○ ○ 8 GND
ISTATROST L 9 ○ ○ 10 GND
IPFSPL 11 ○ ○ 12 GND
IRDY L 13 ○ ○ 14 GND
IPRND L 15 ○ ○ 16 GND
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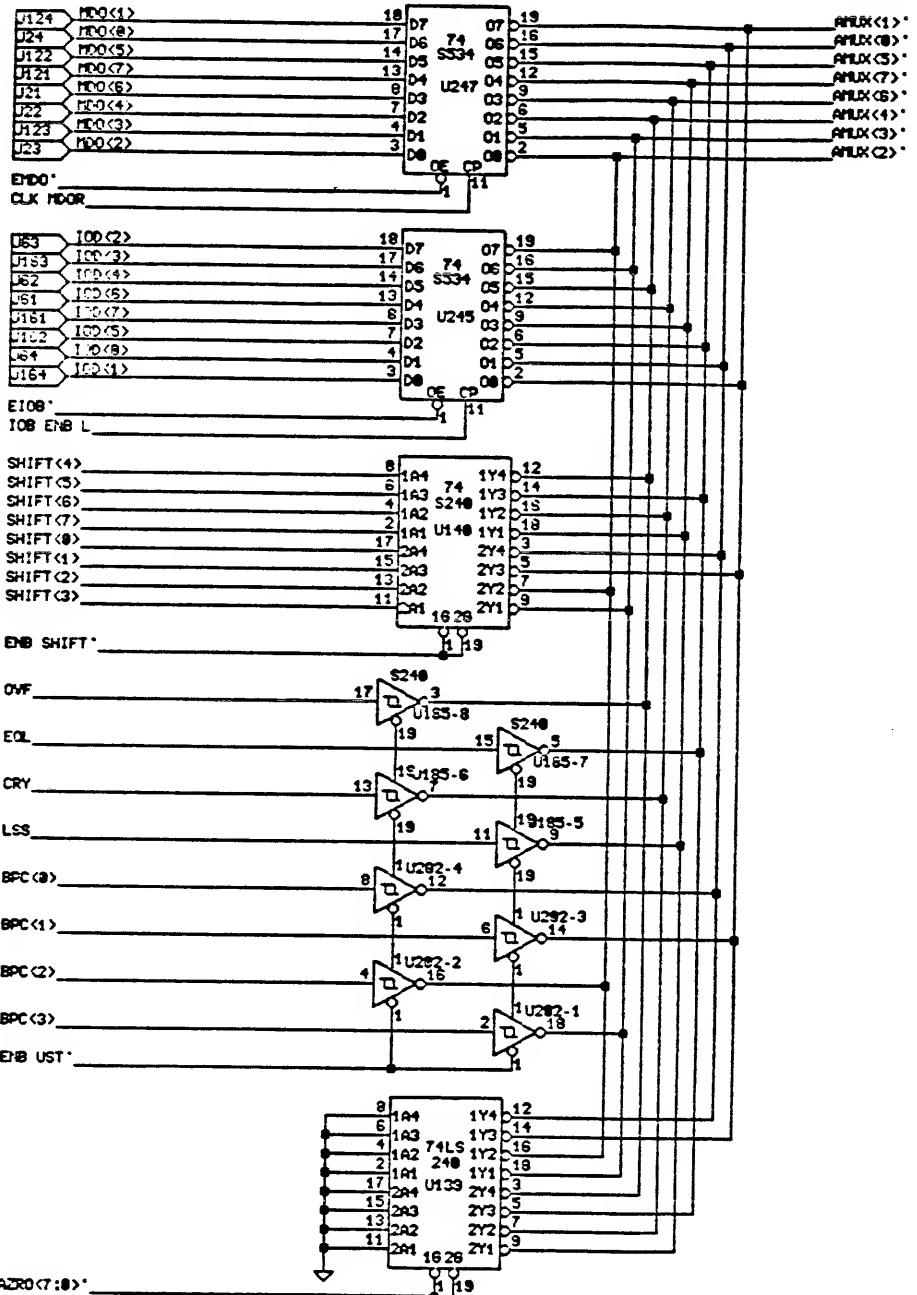


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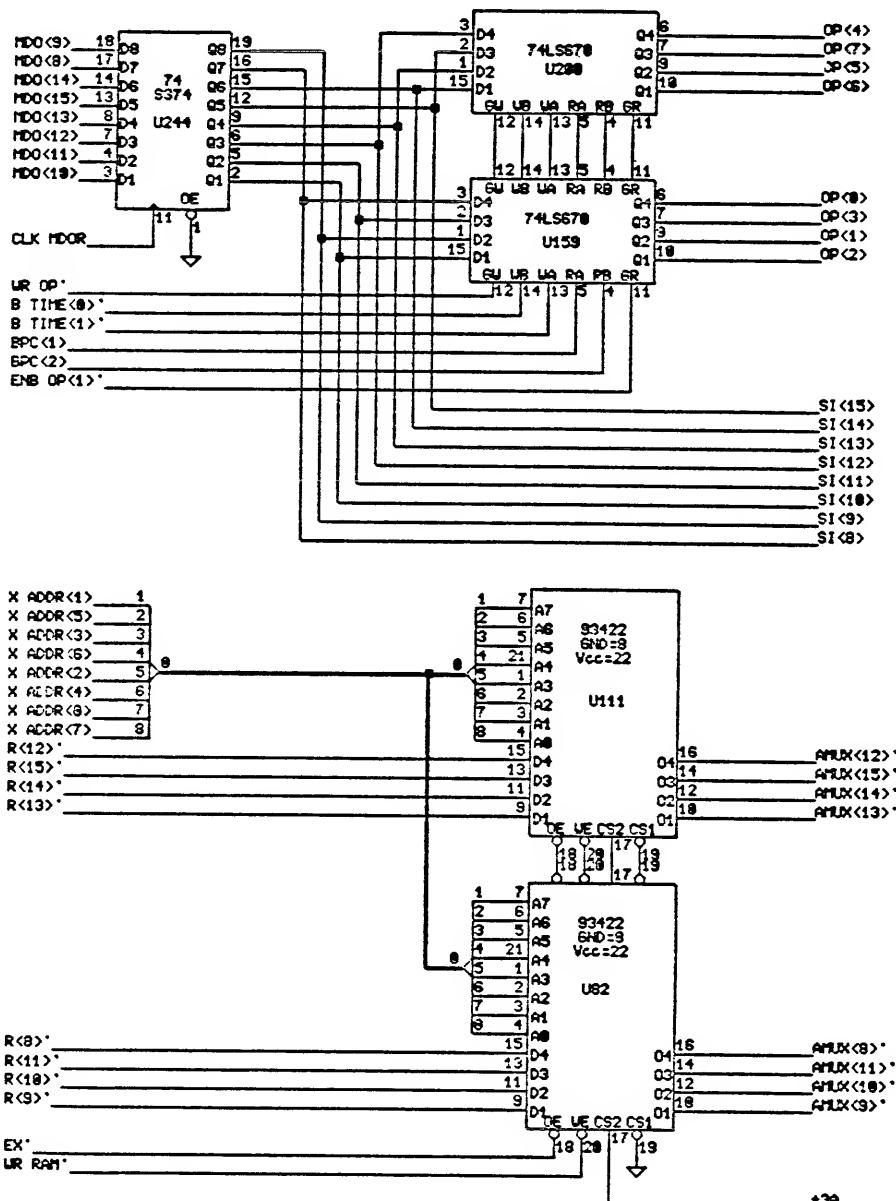
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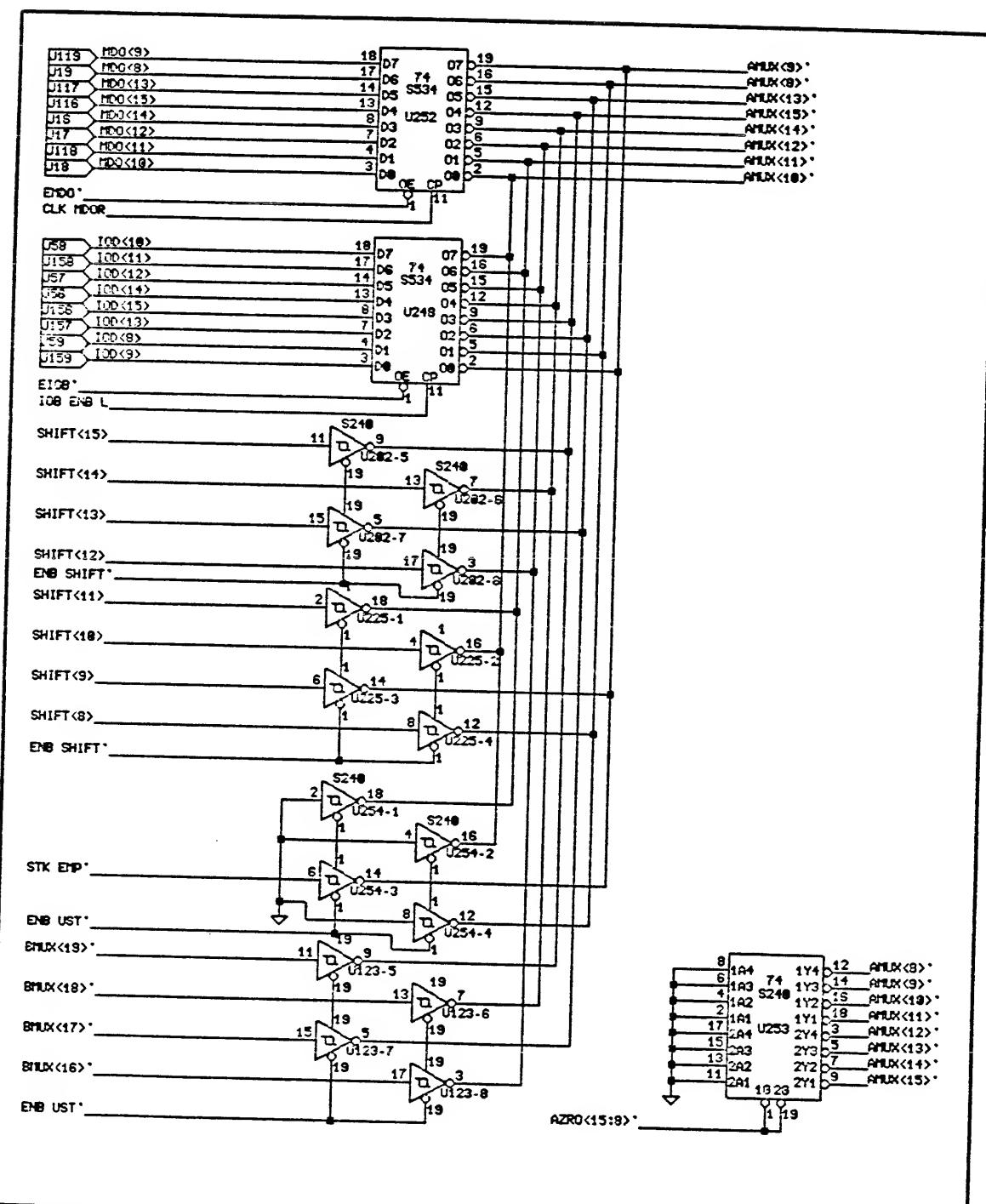
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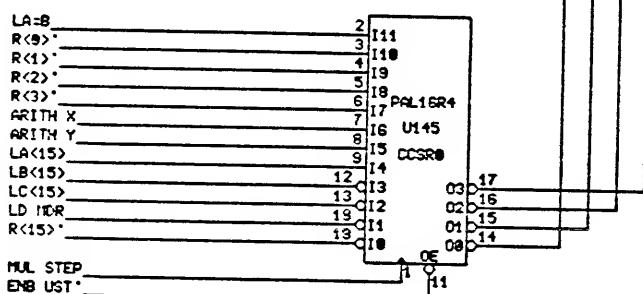
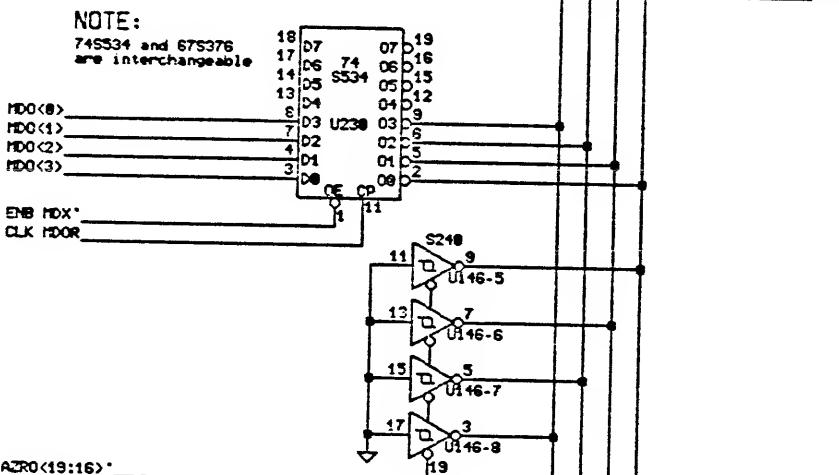
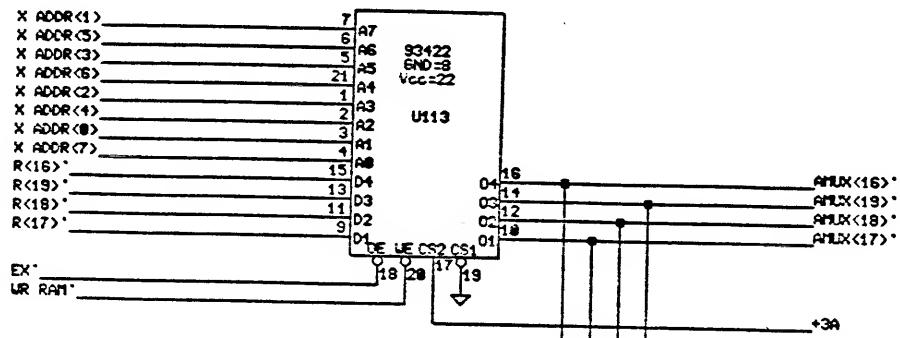
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**PERQ**

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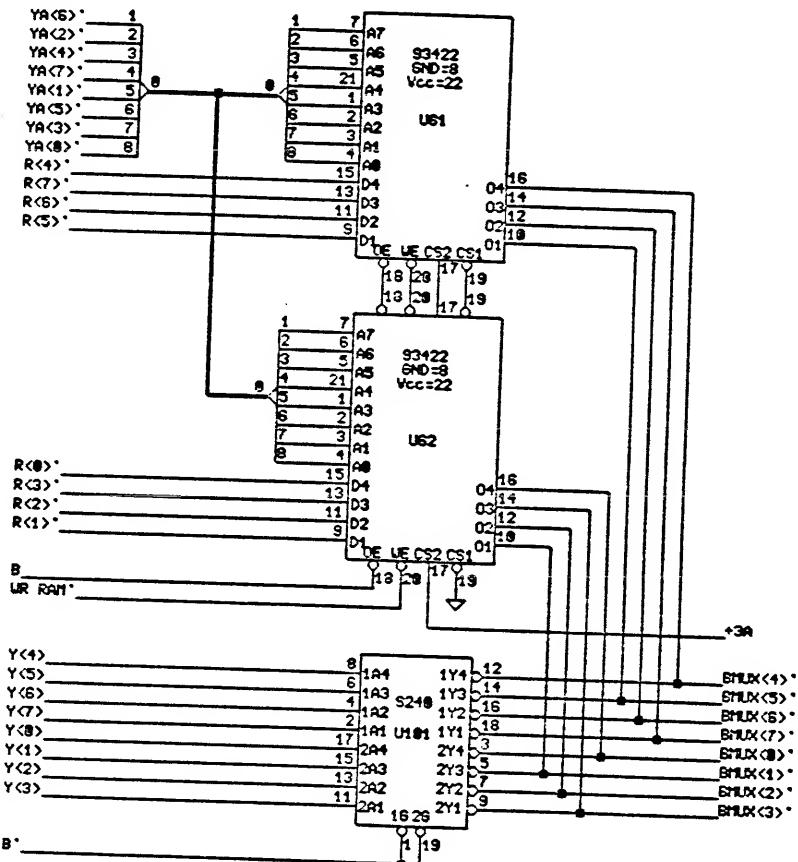
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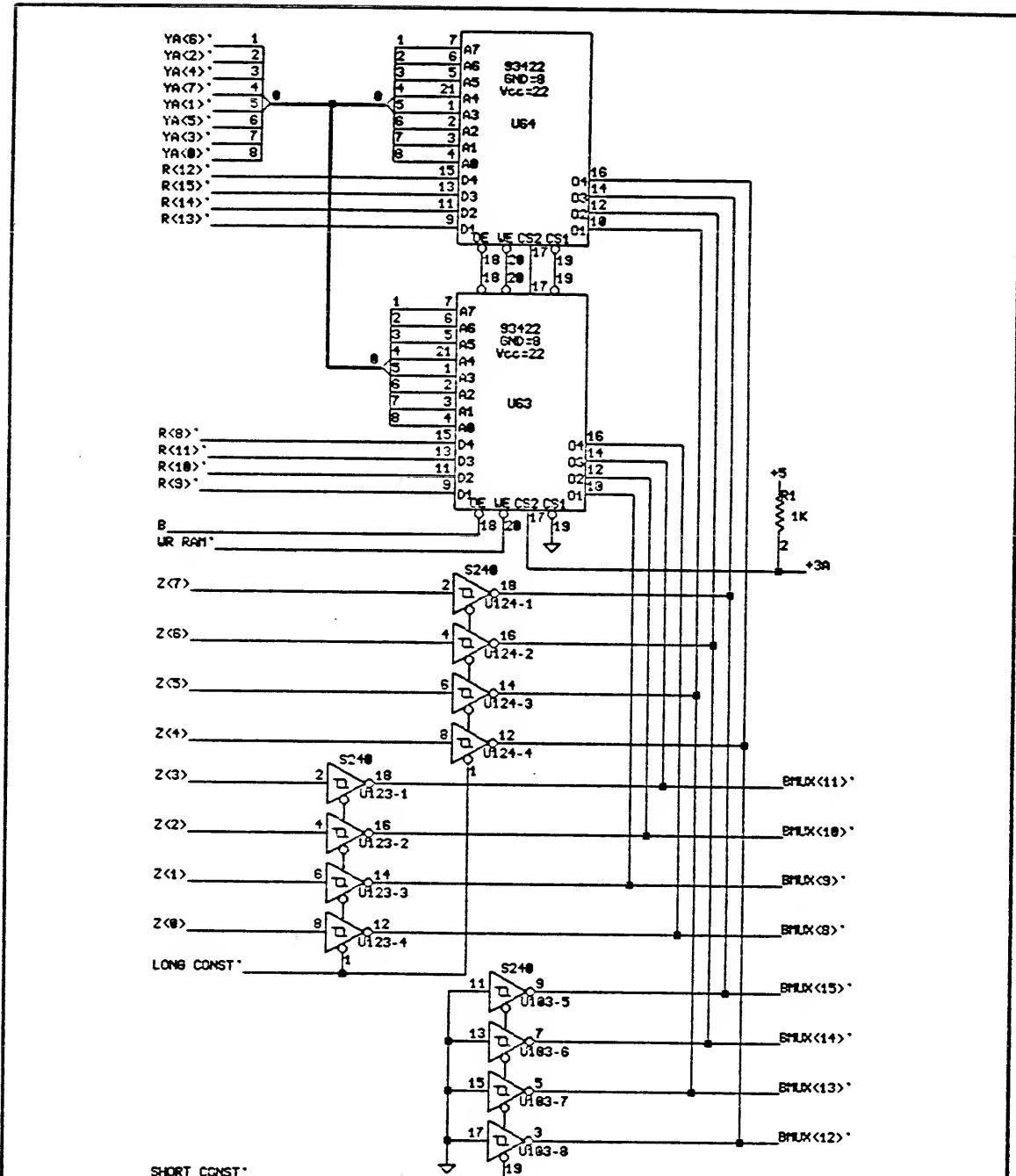
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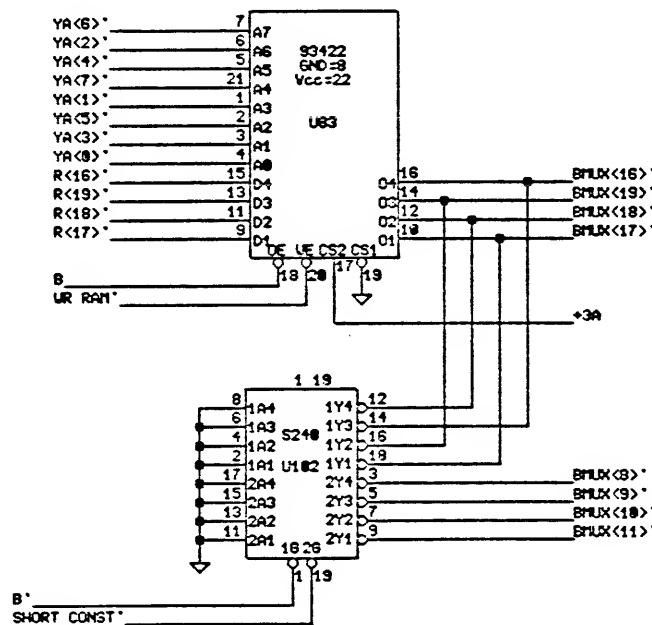
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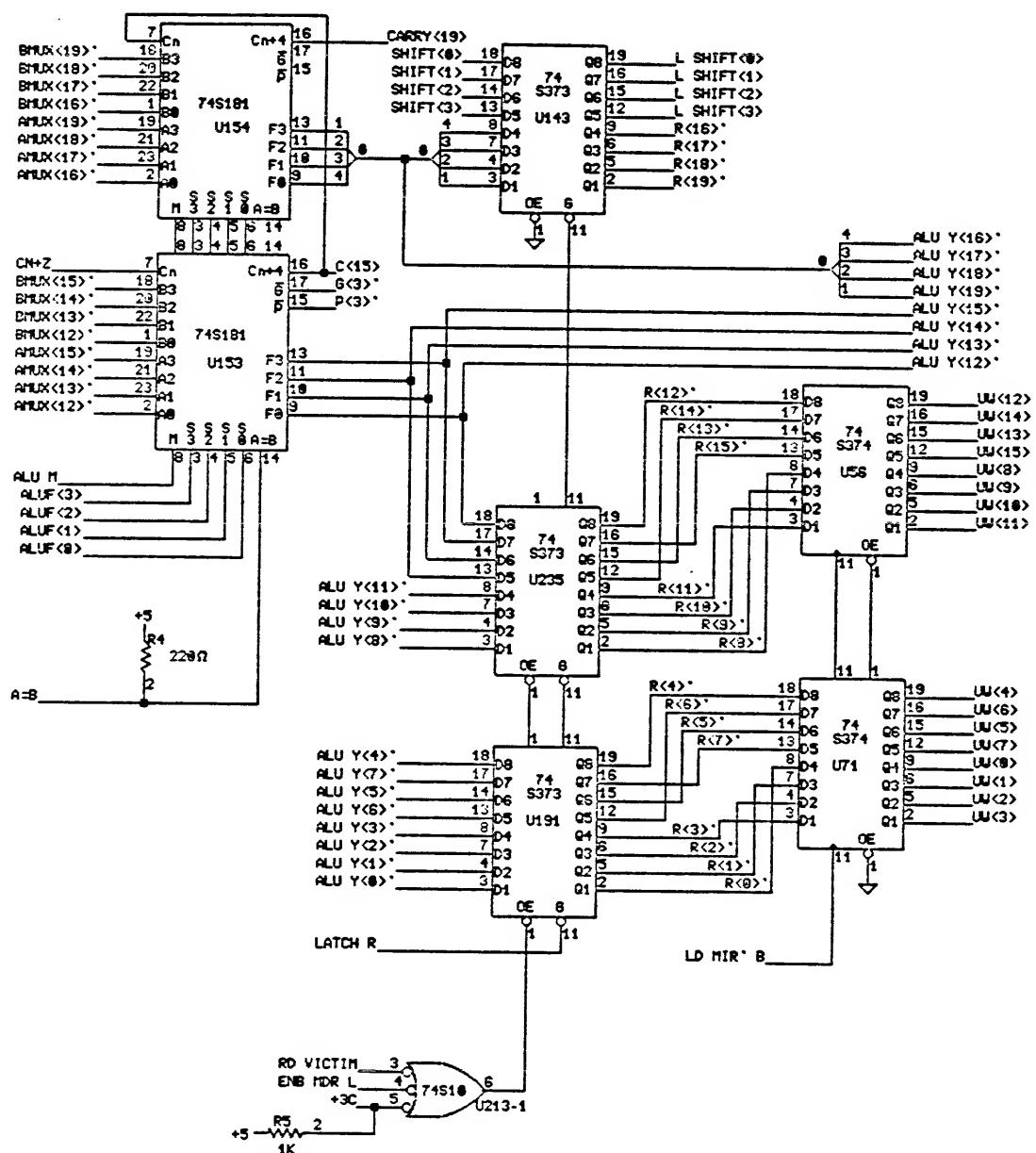
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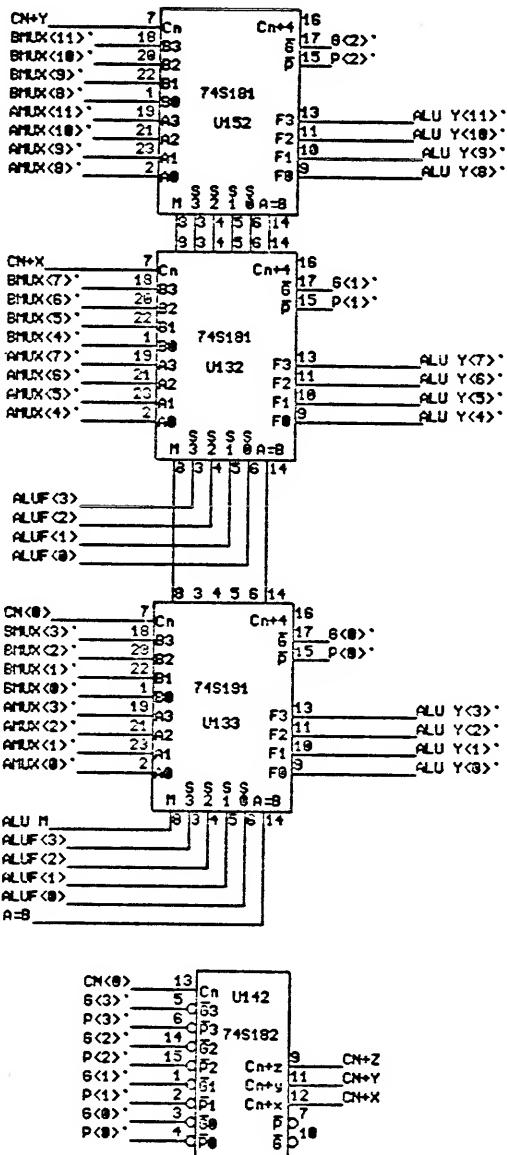
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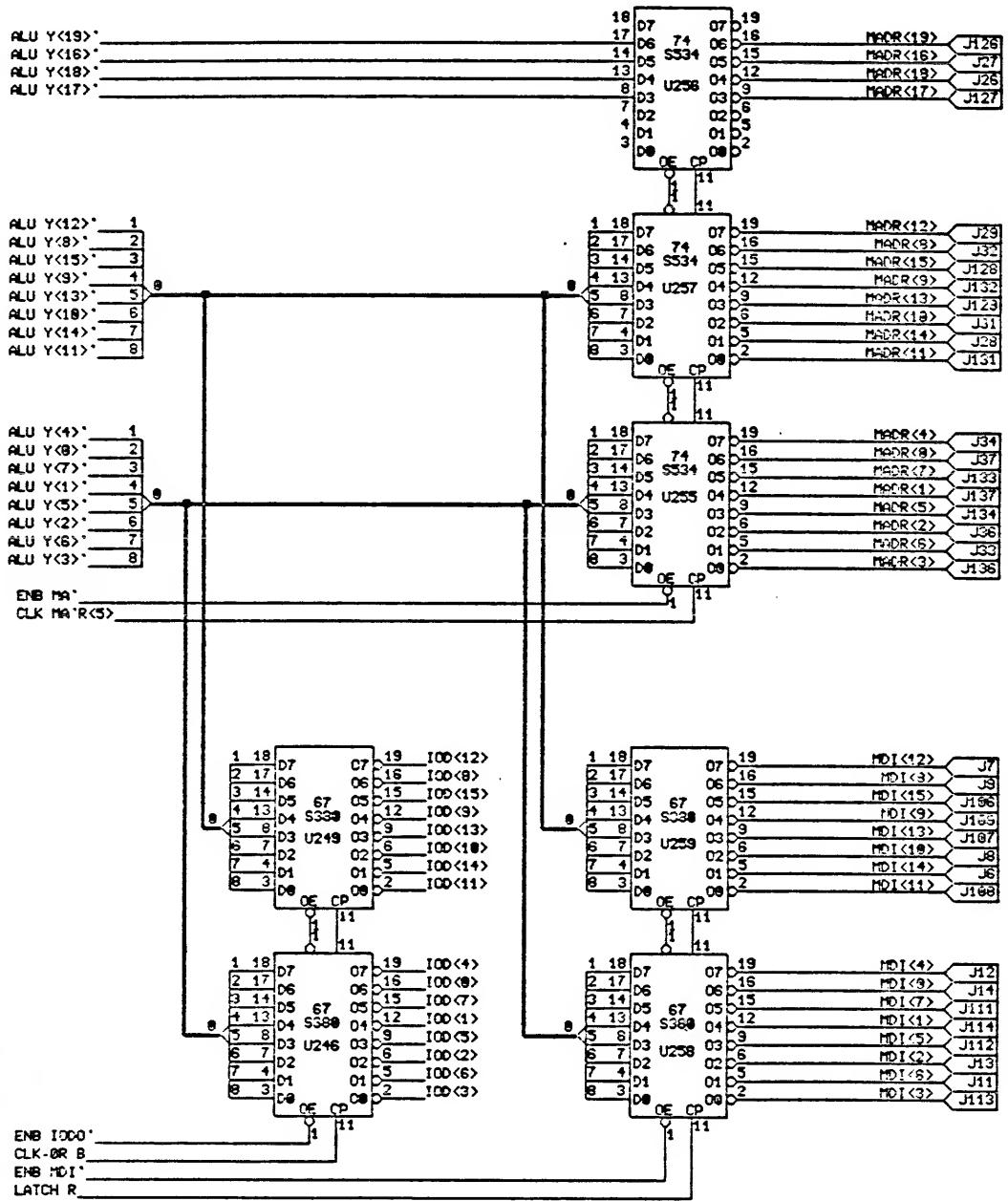
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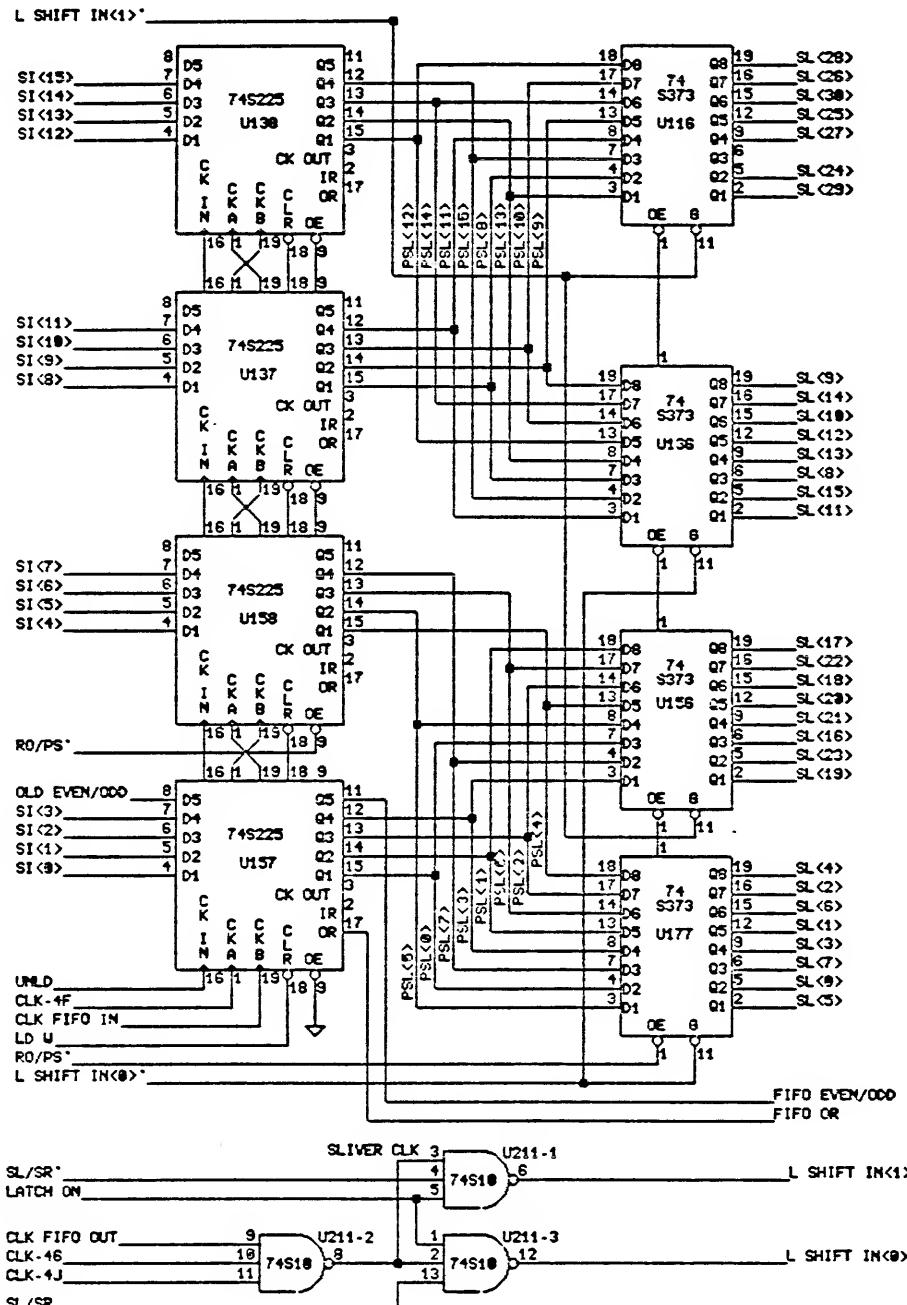
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TITLE  
ALU MEMORY BUS INTERFACE

a11.db

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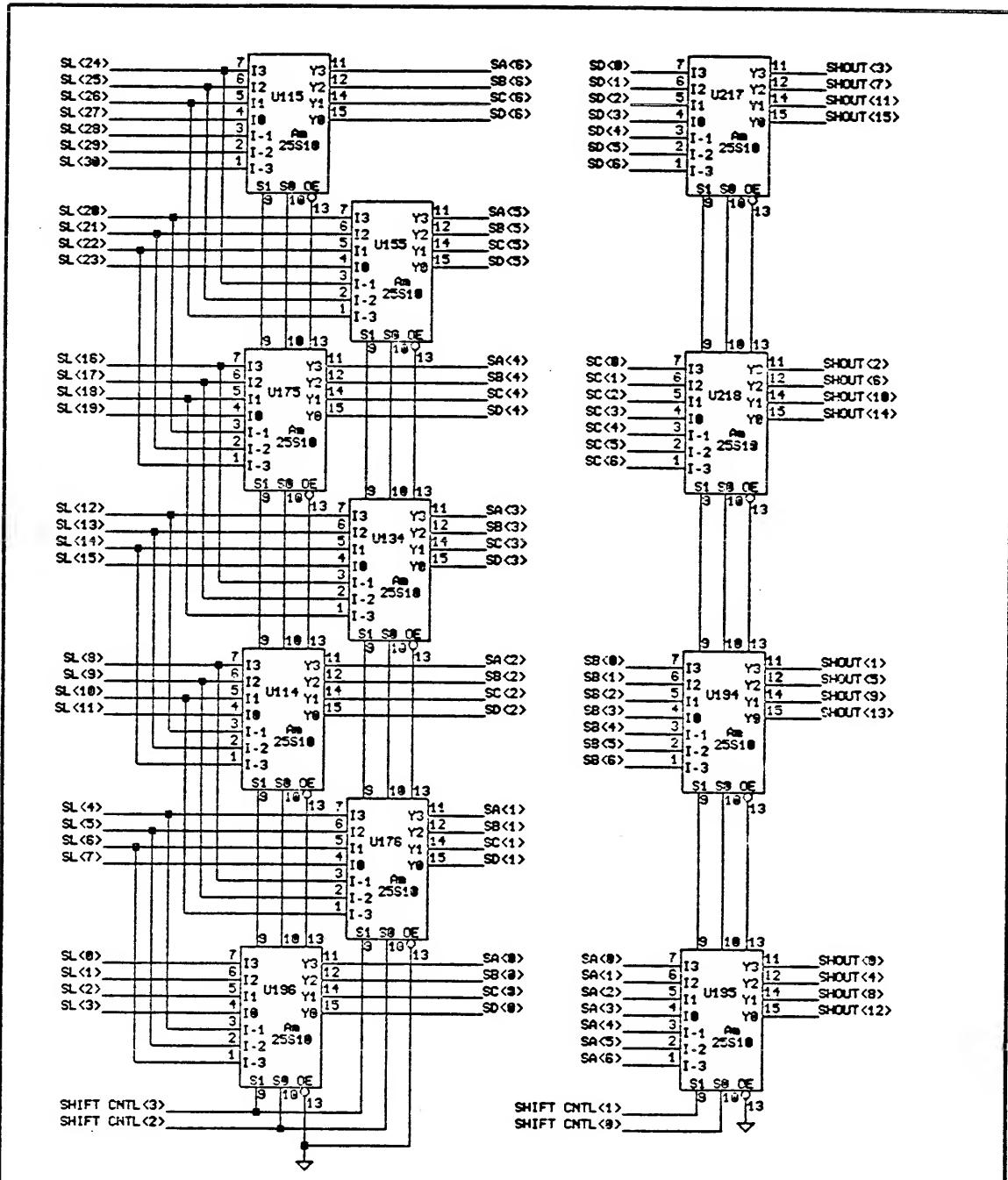


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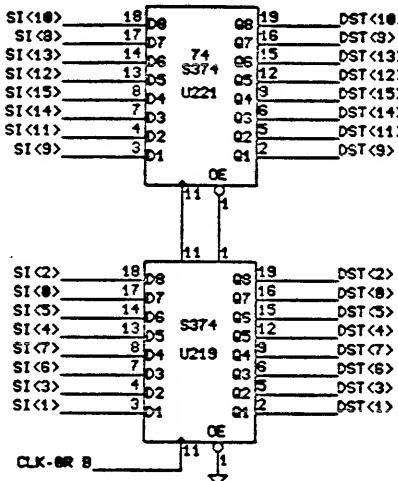
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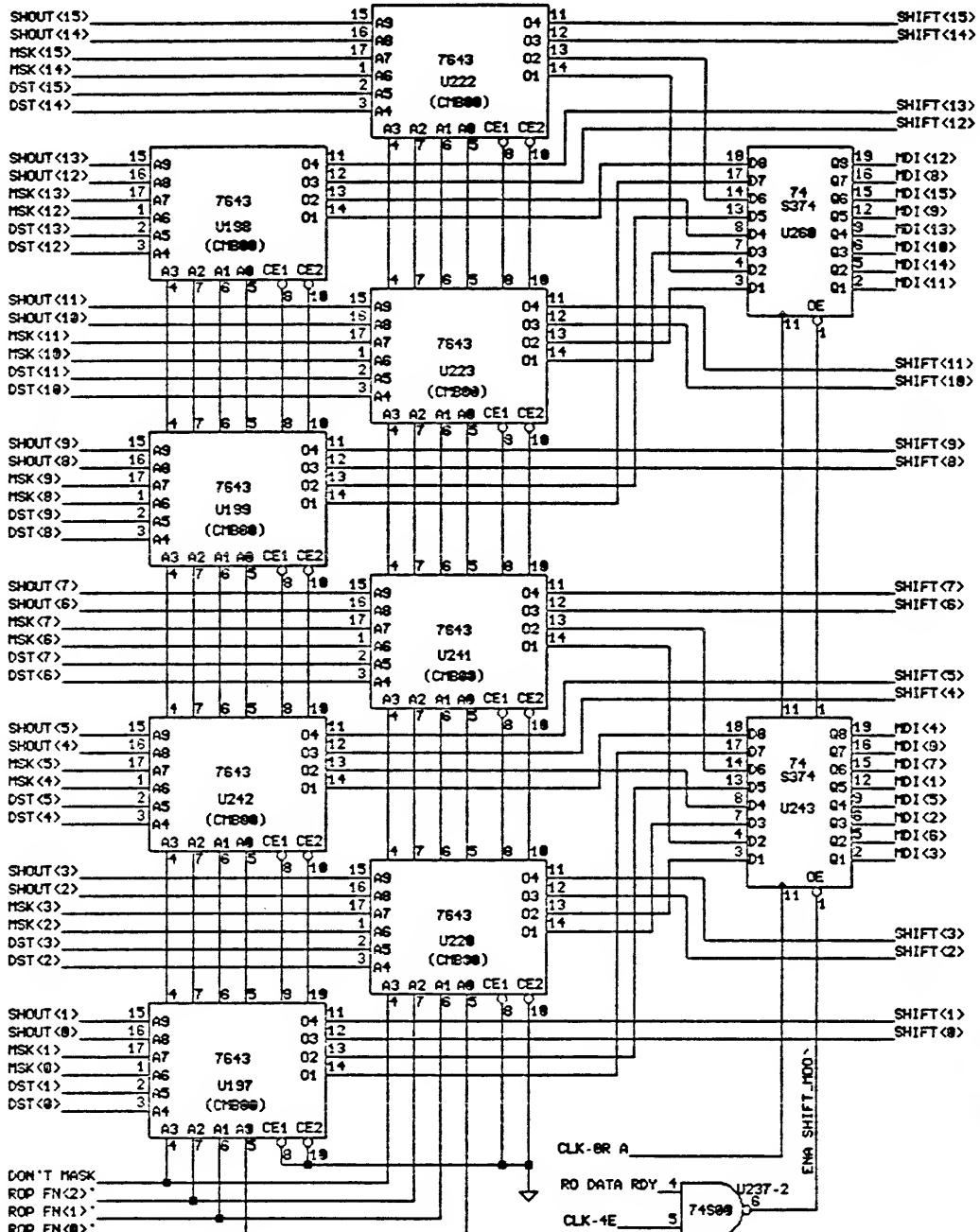
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CPU 16K Version A

IDENTIFICATION

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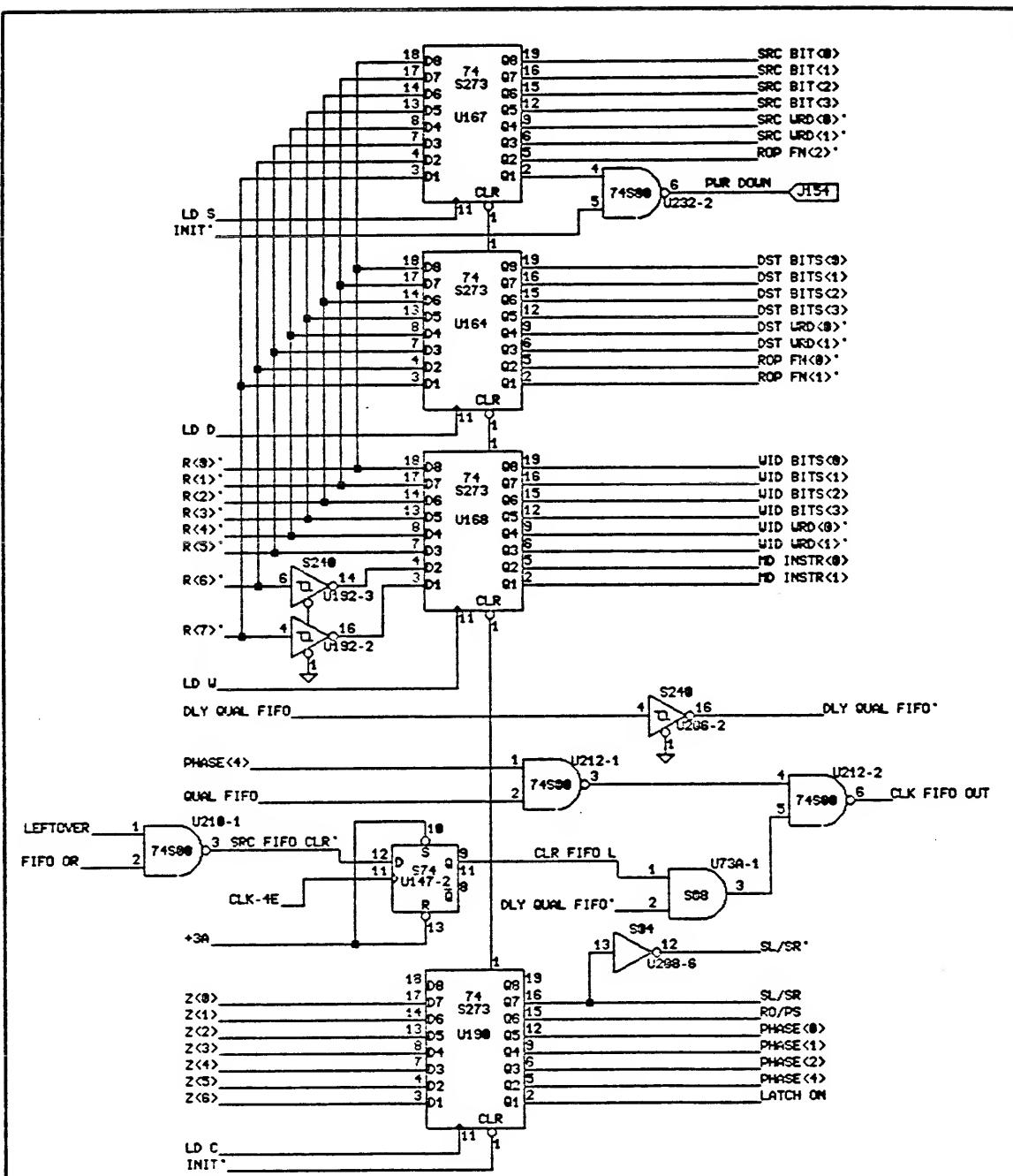
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PAGE 15 OF 45



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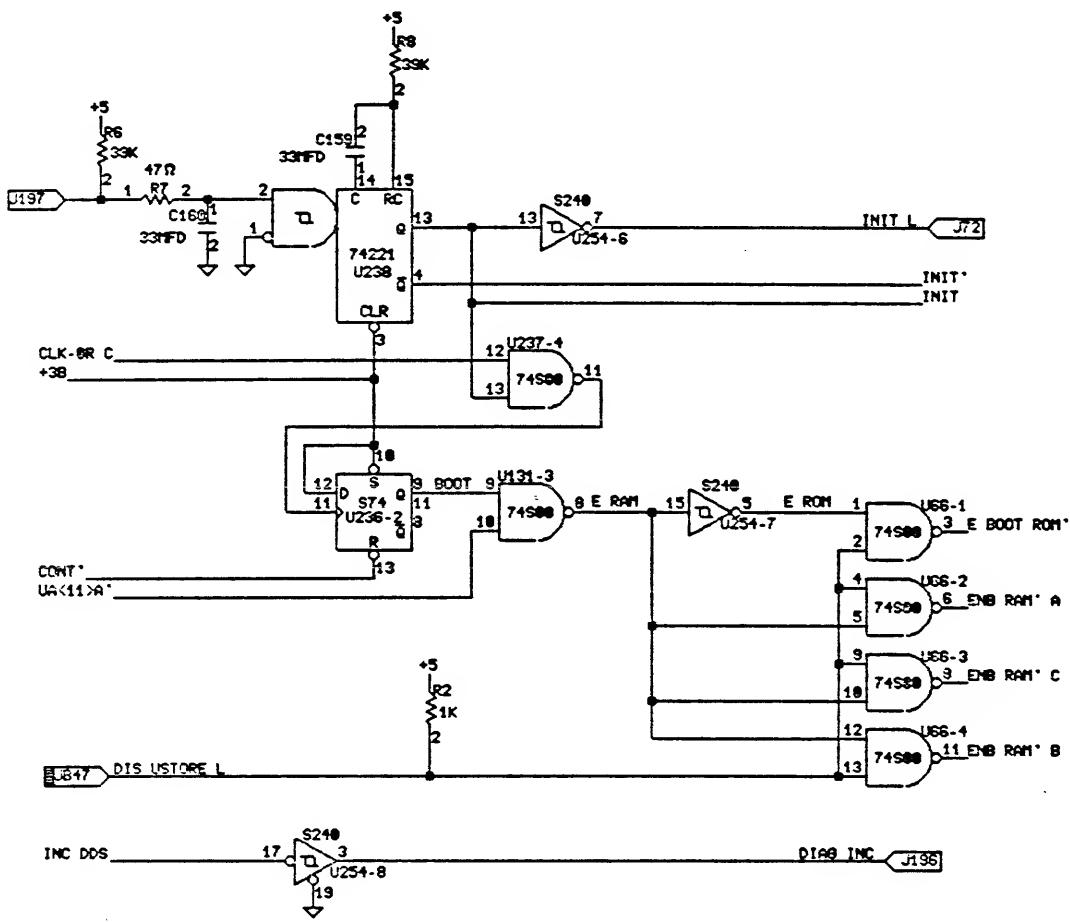
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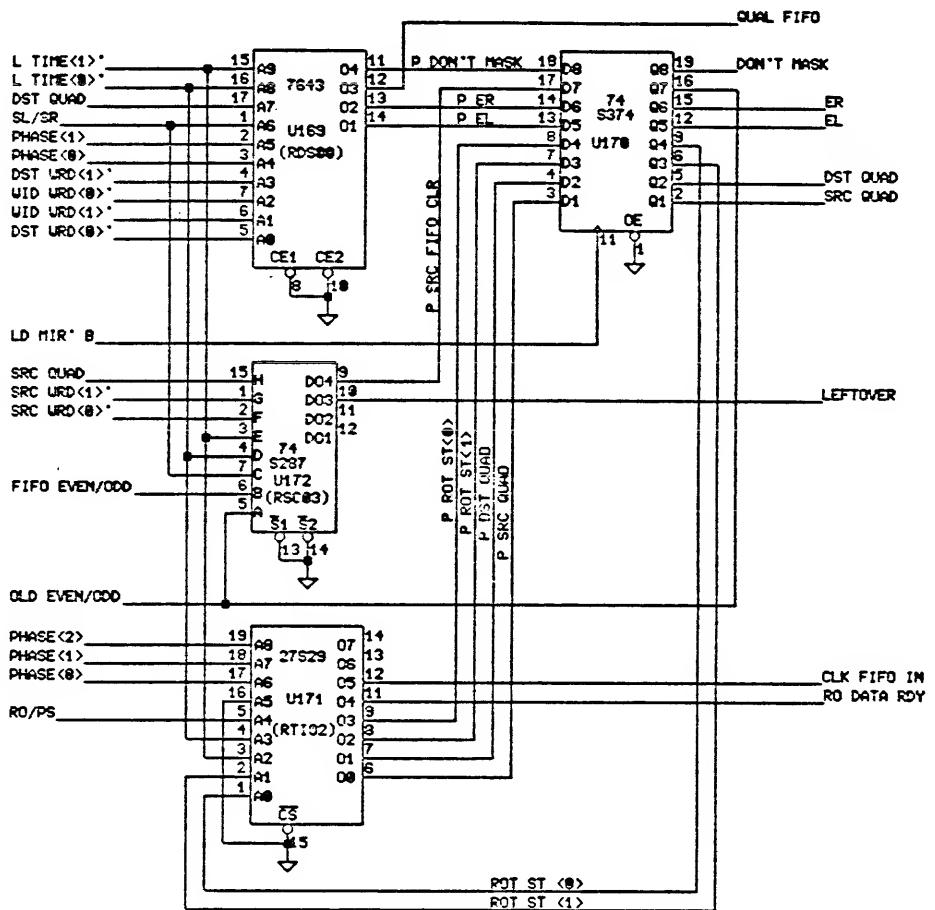
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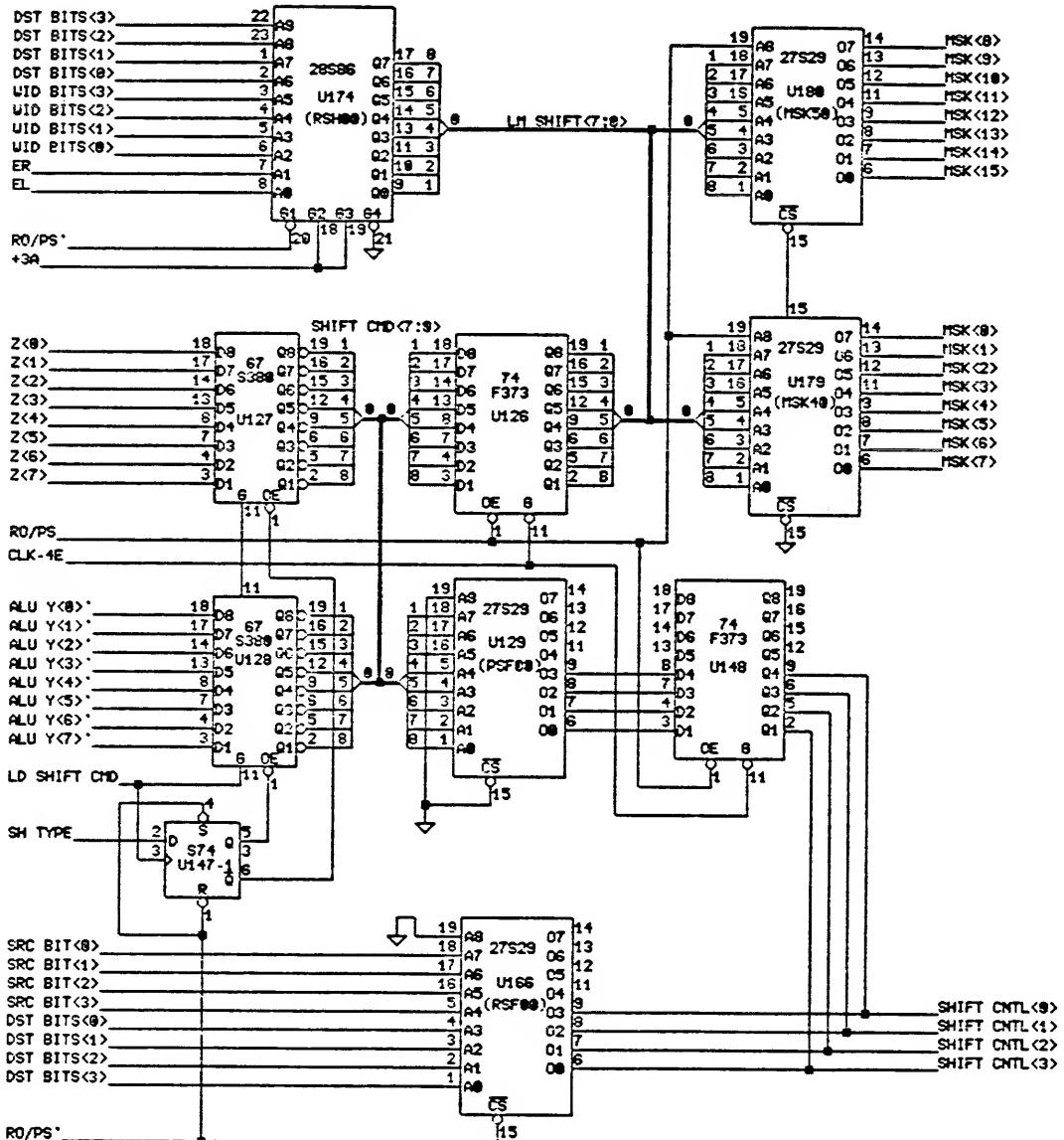
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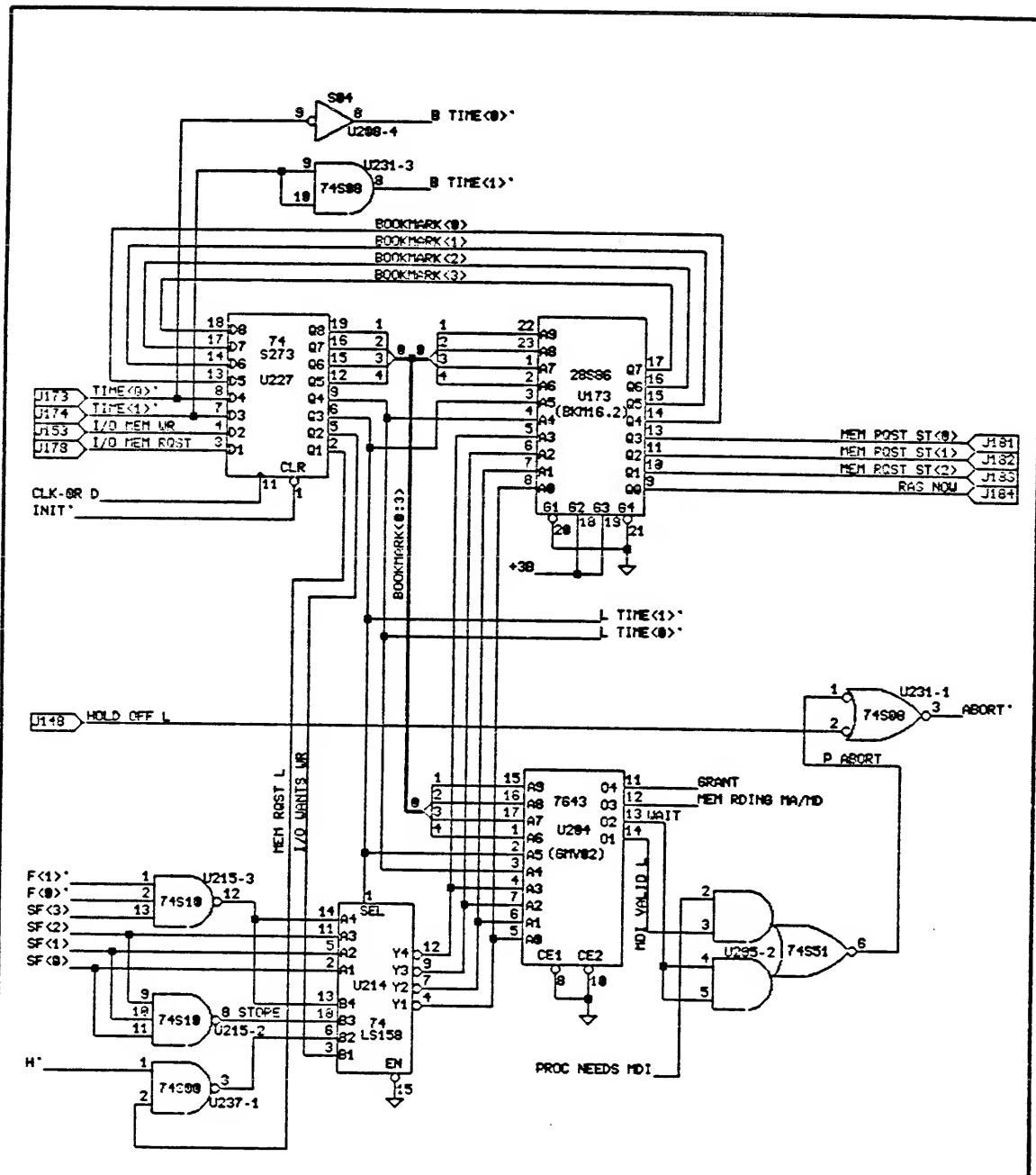
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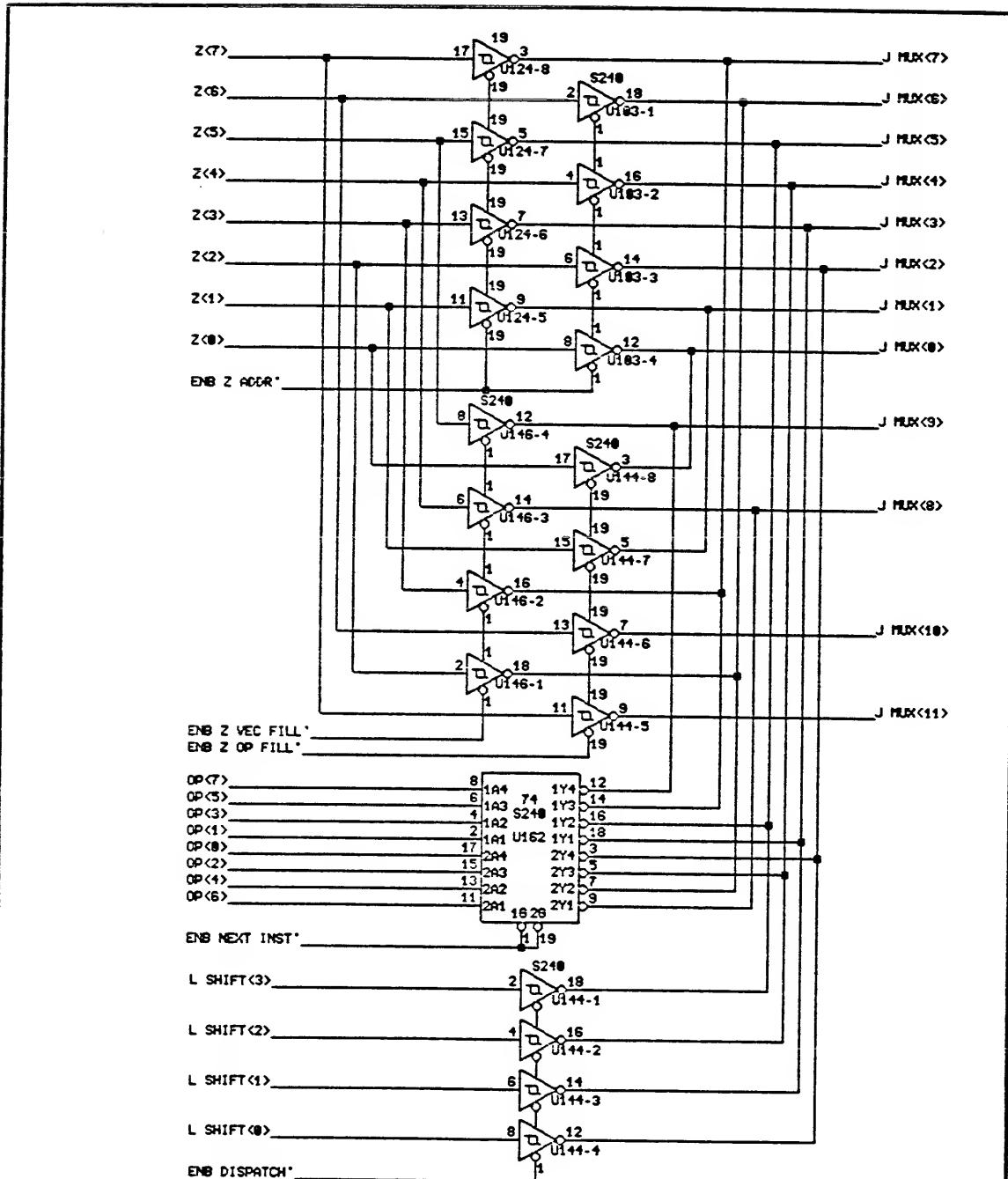


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TITLE CPU MEMSTATE MACHINE

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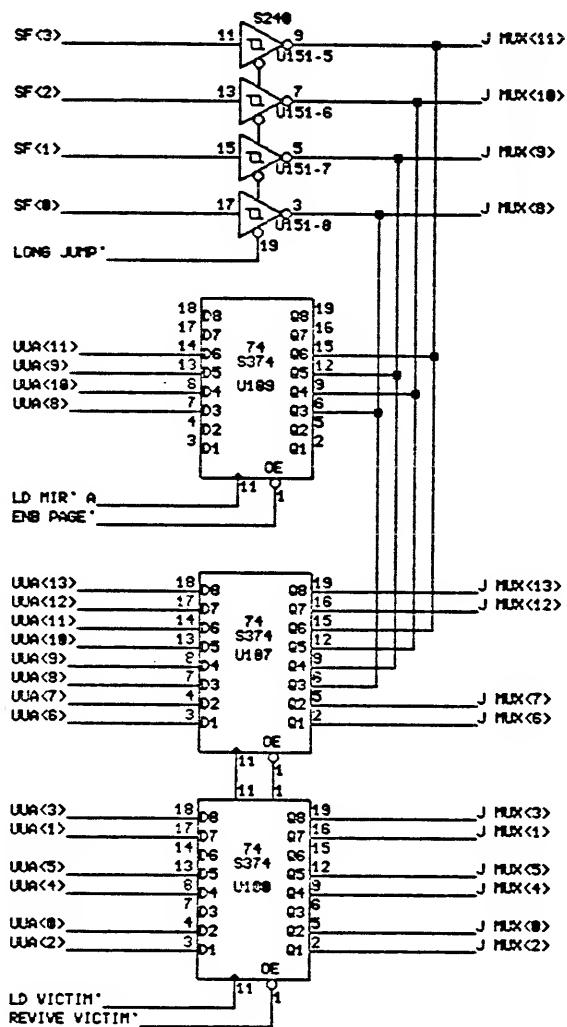
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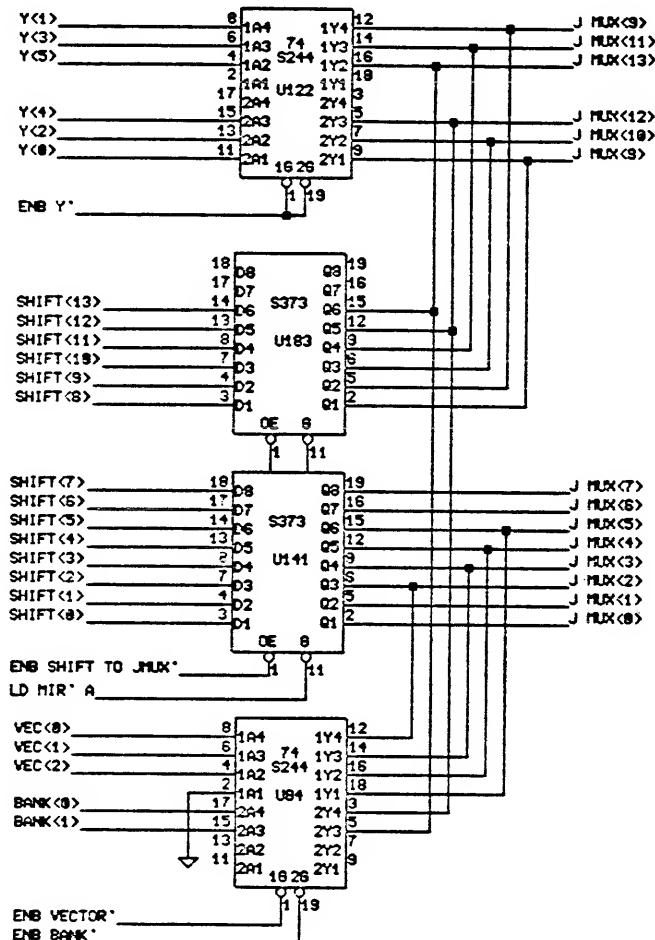
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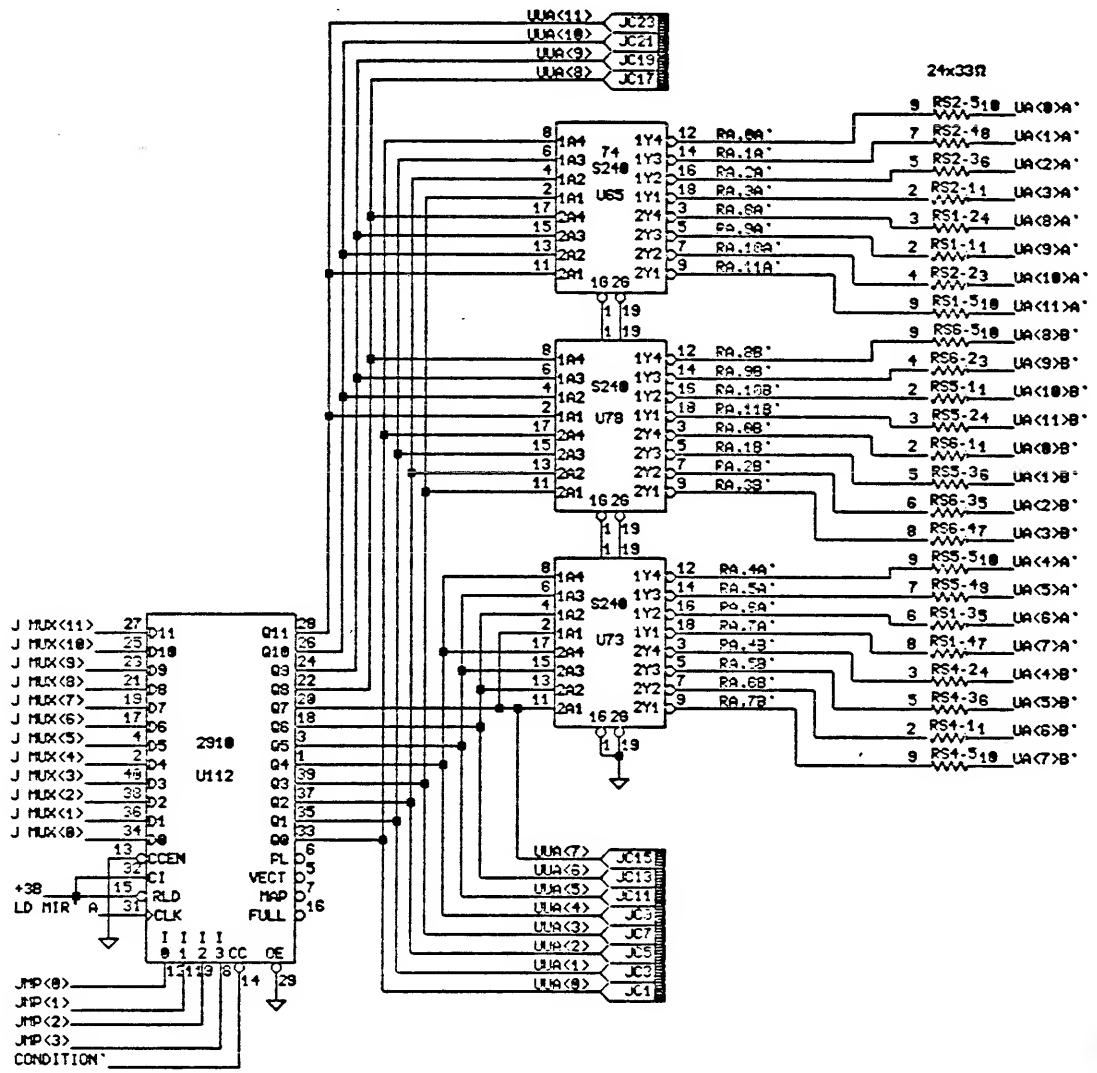


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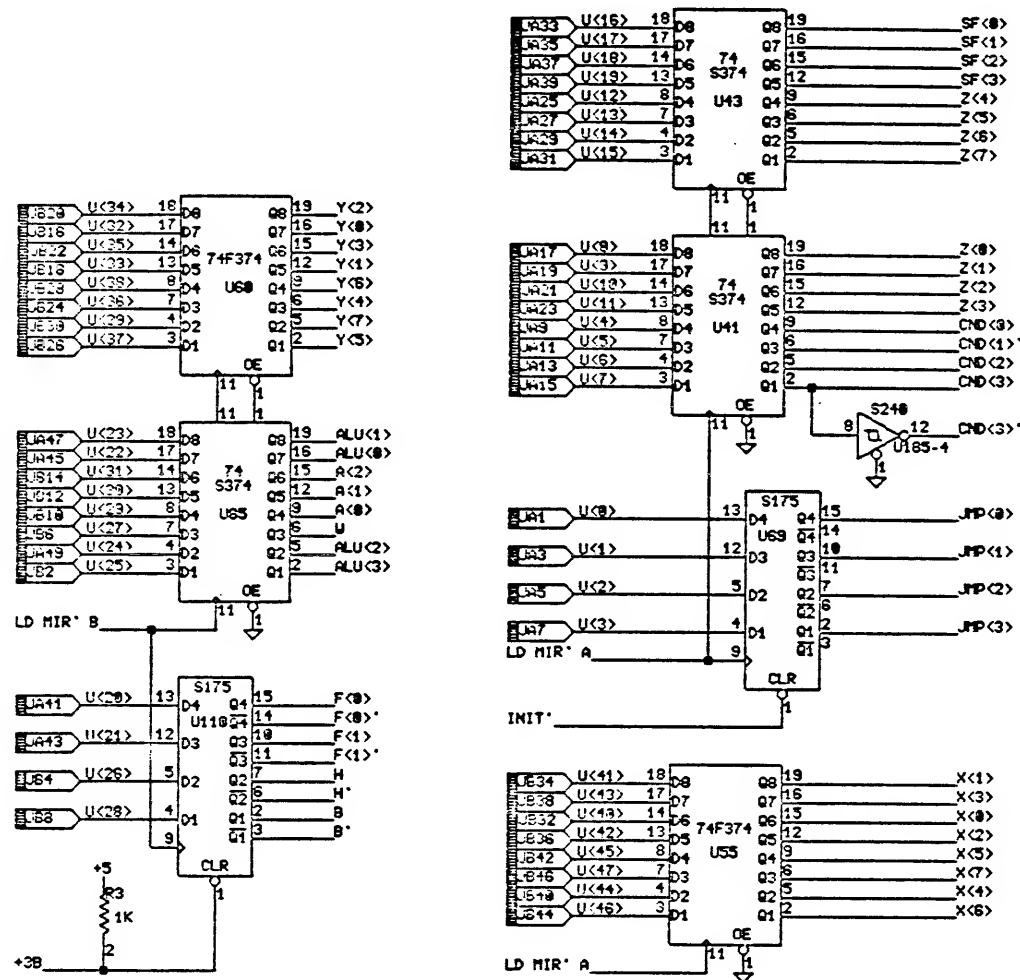


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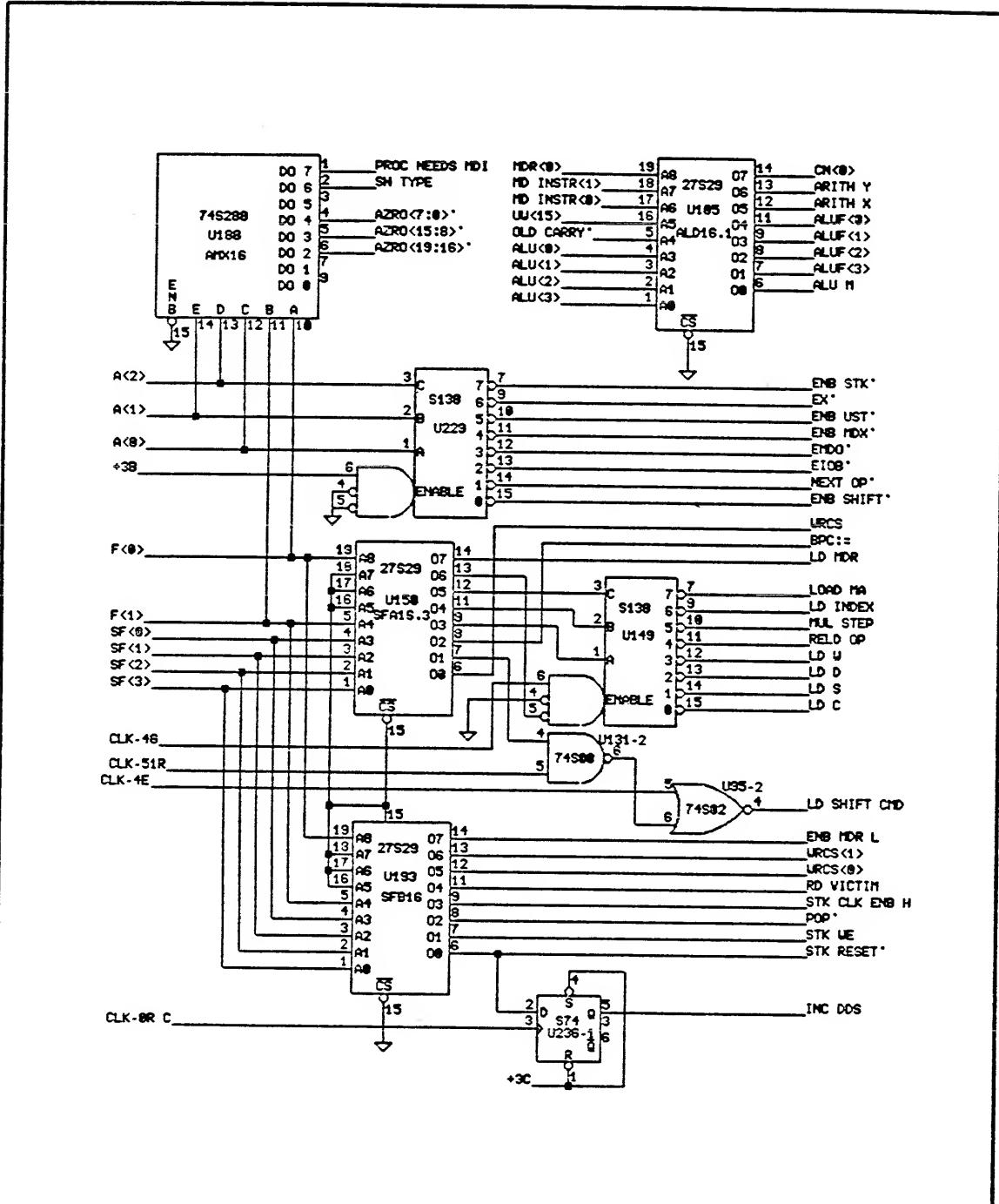
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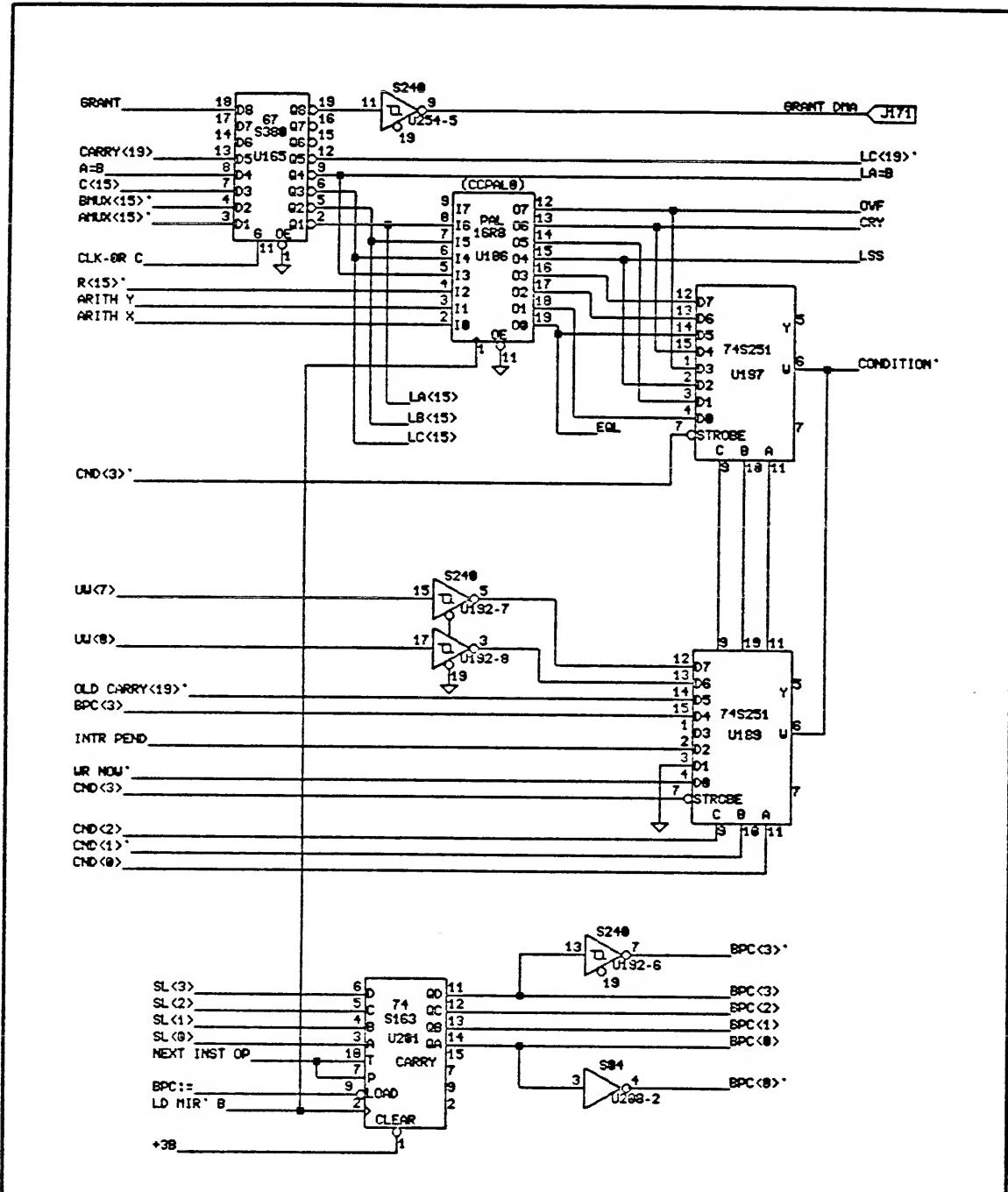
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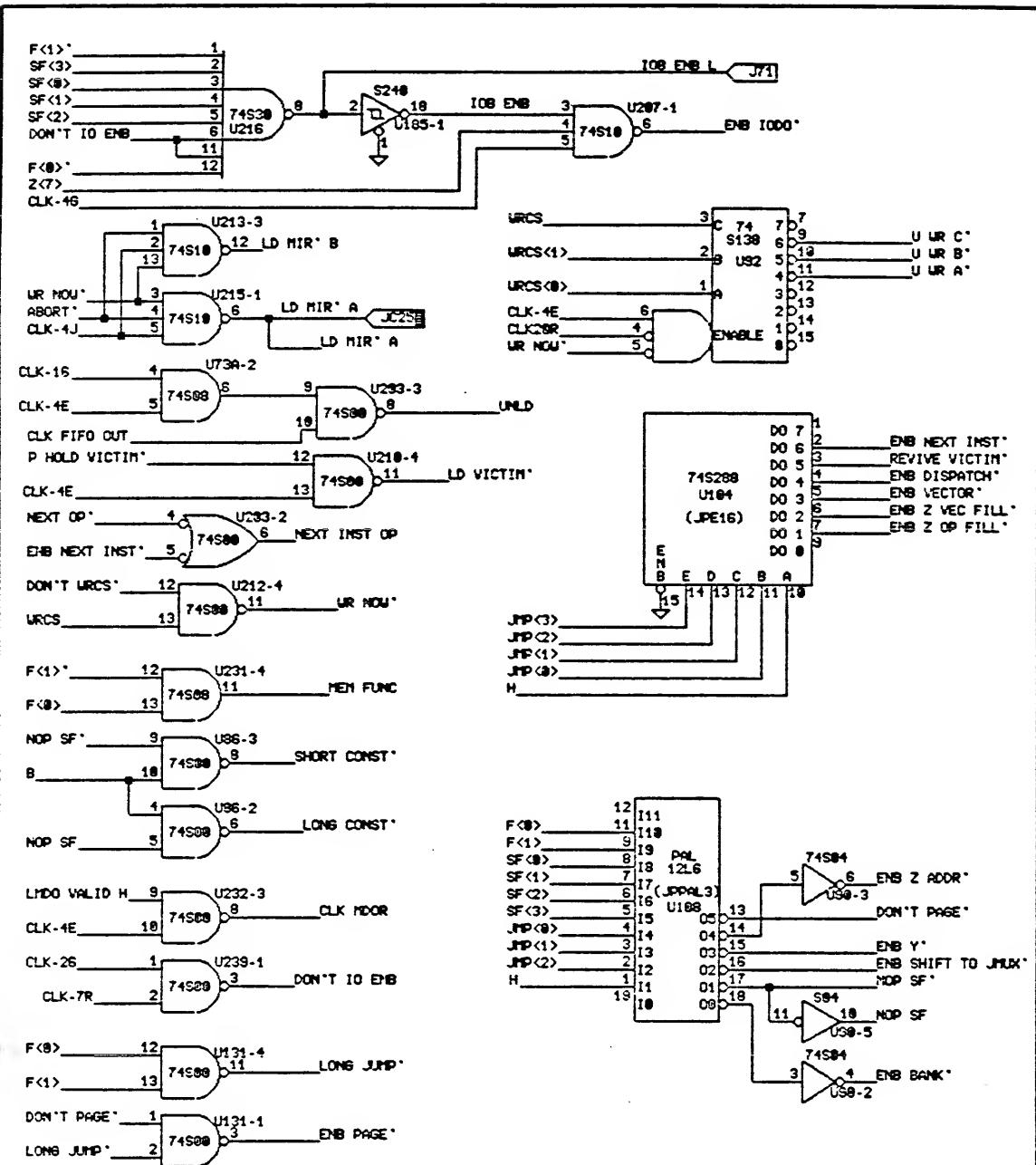


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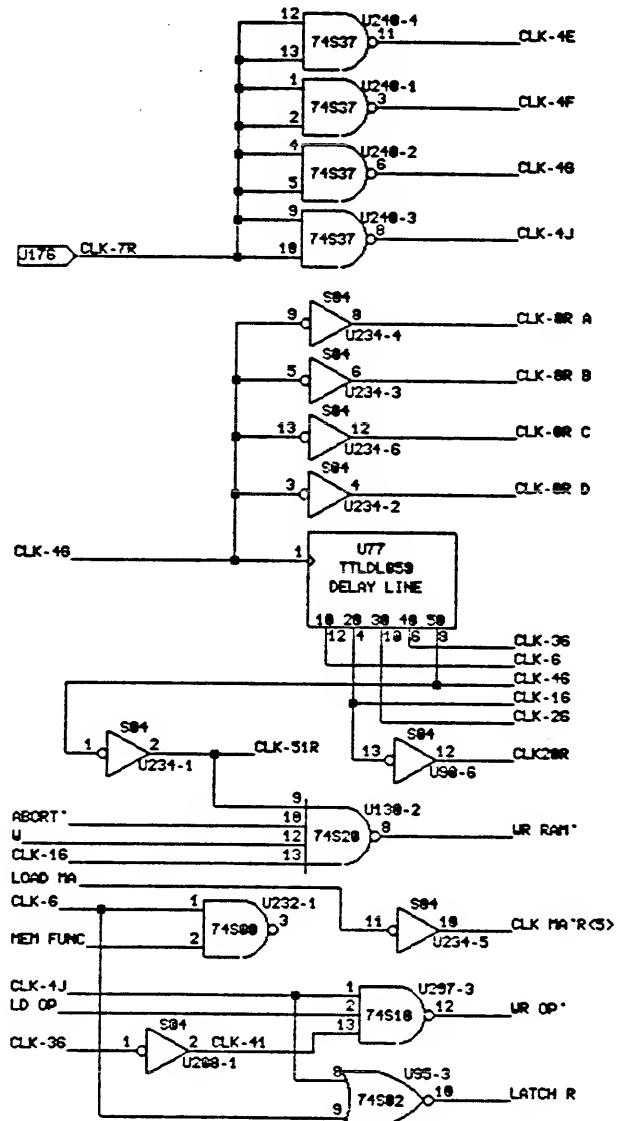


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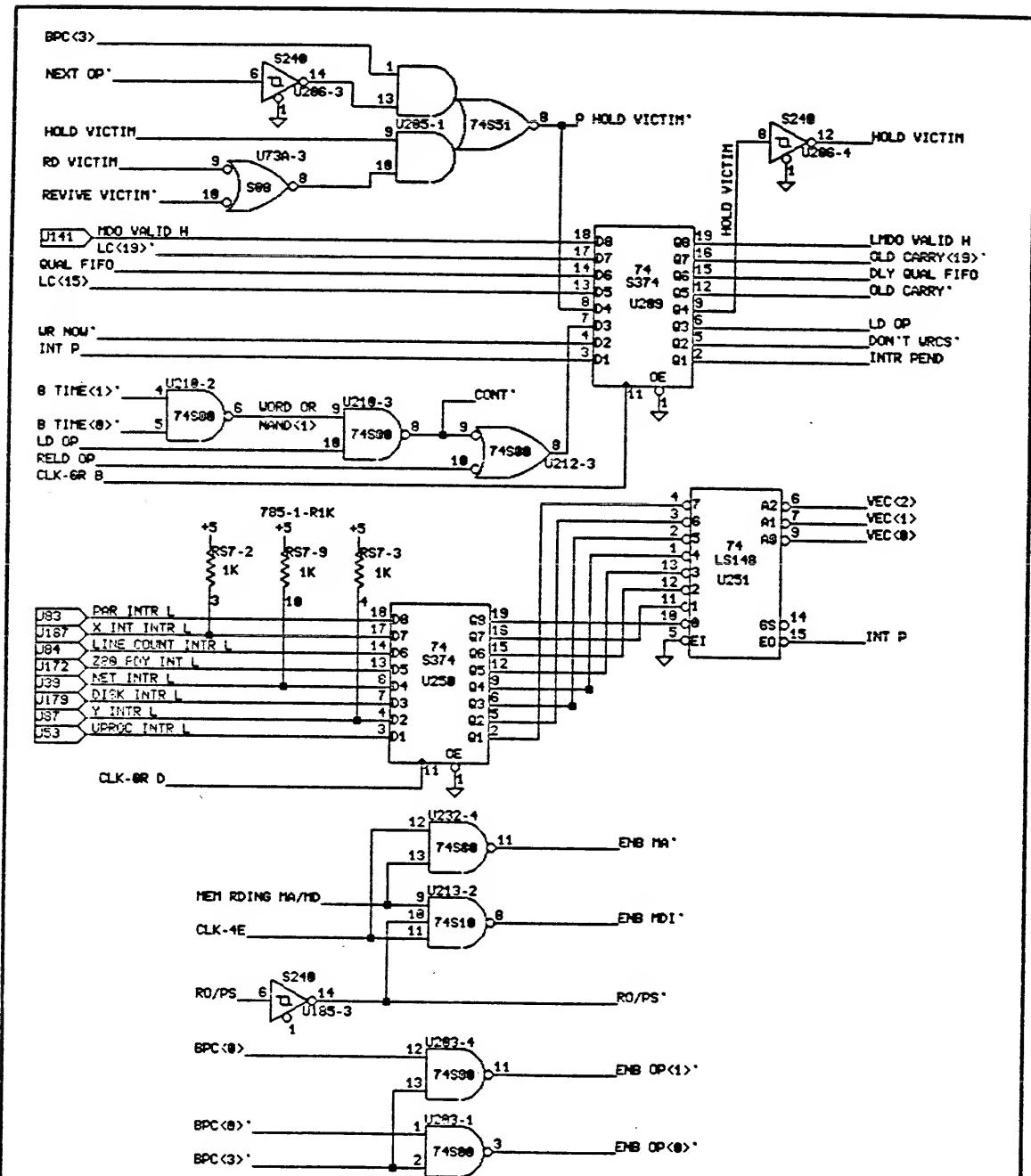
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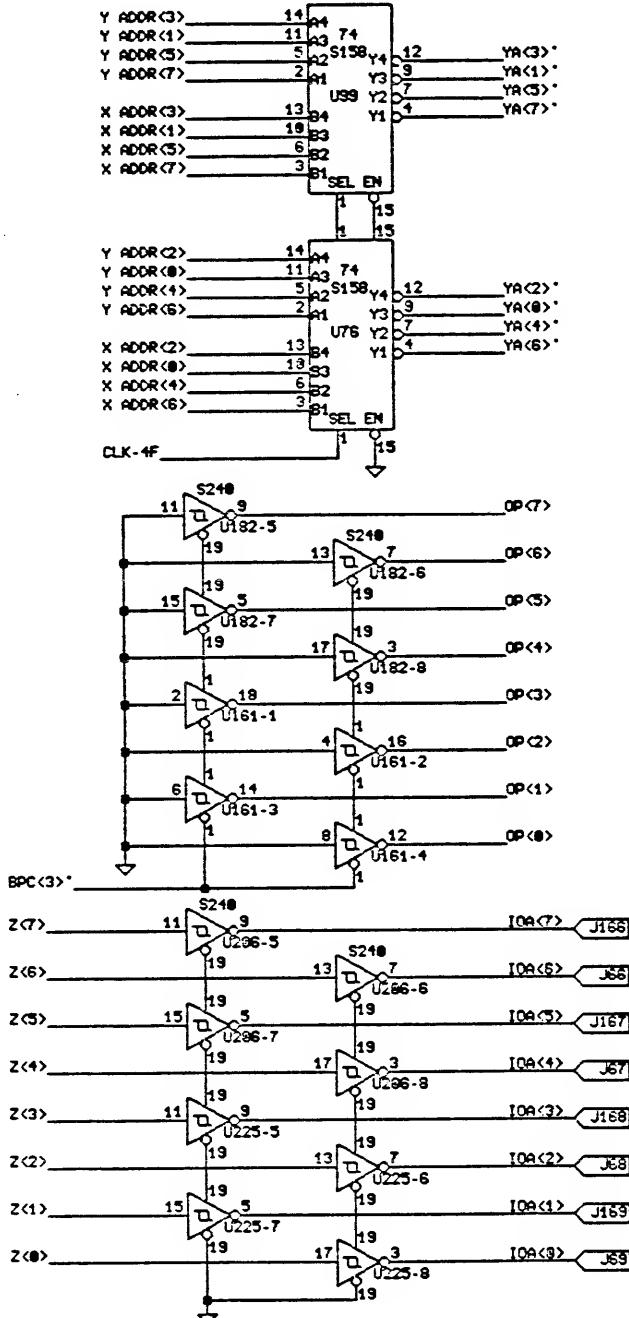


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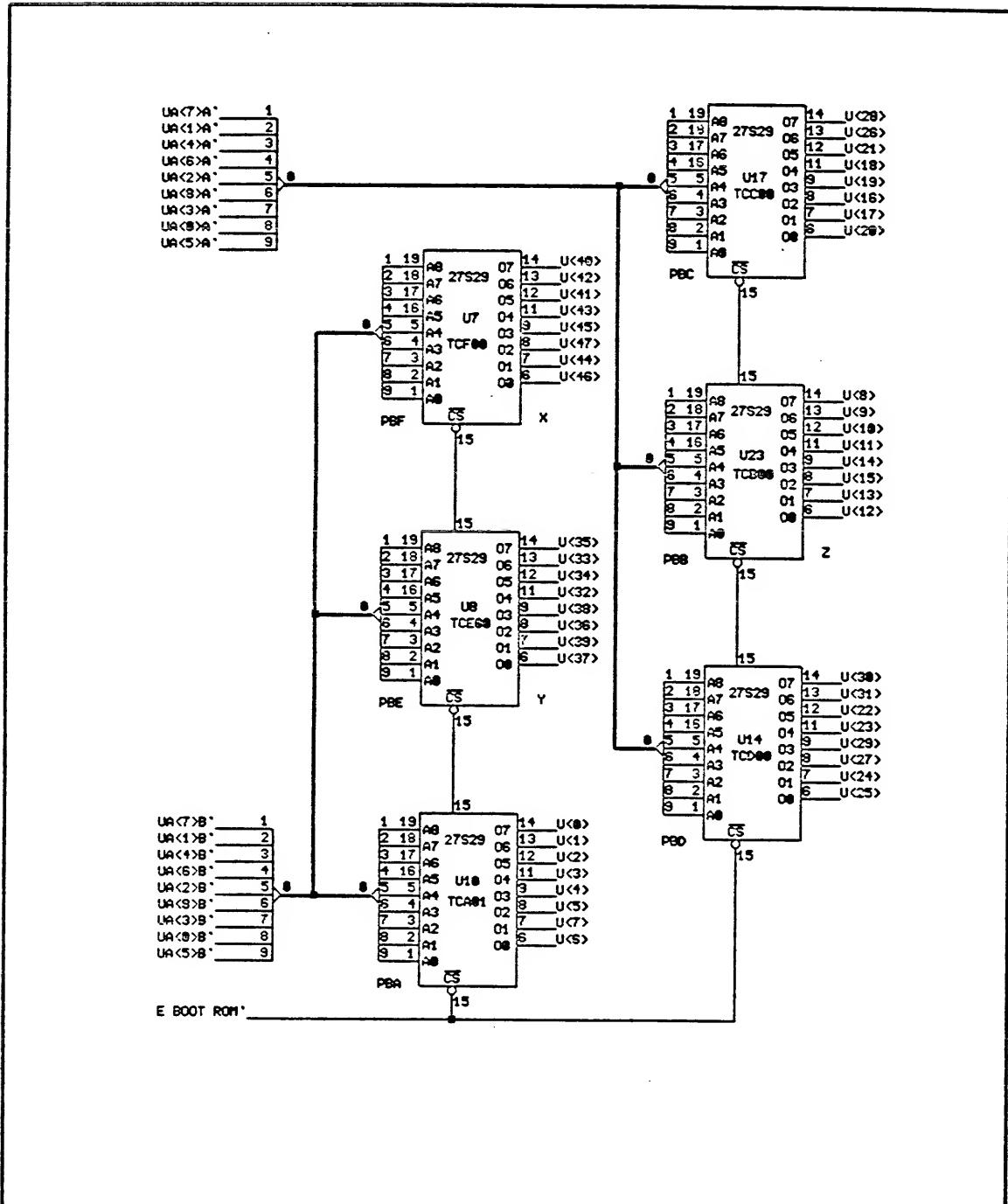
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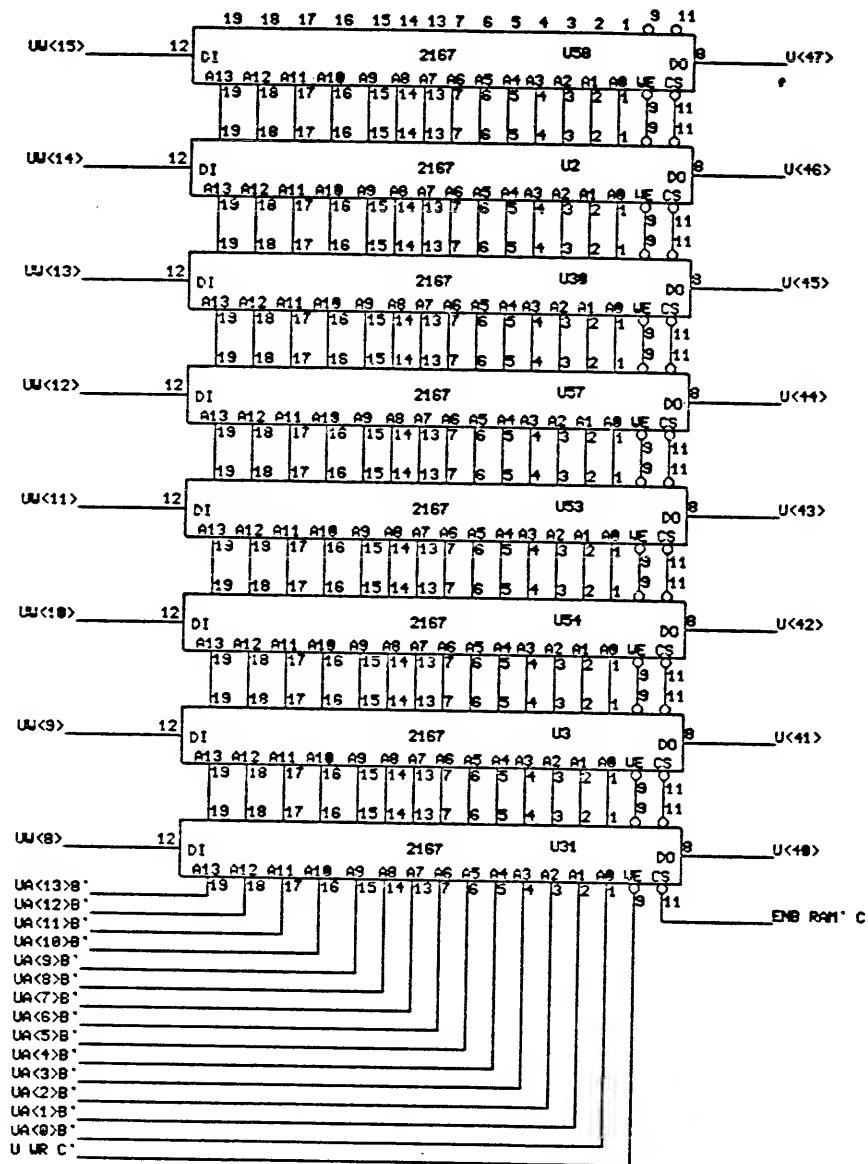
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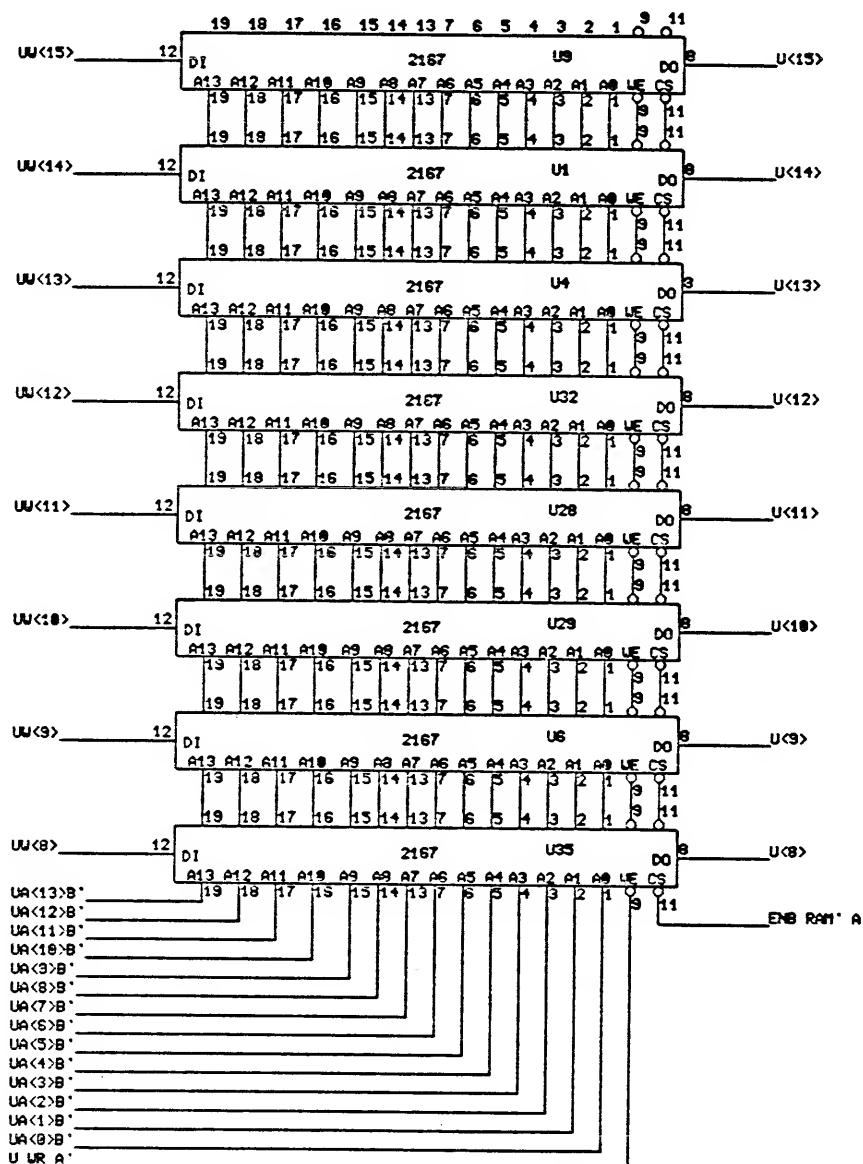


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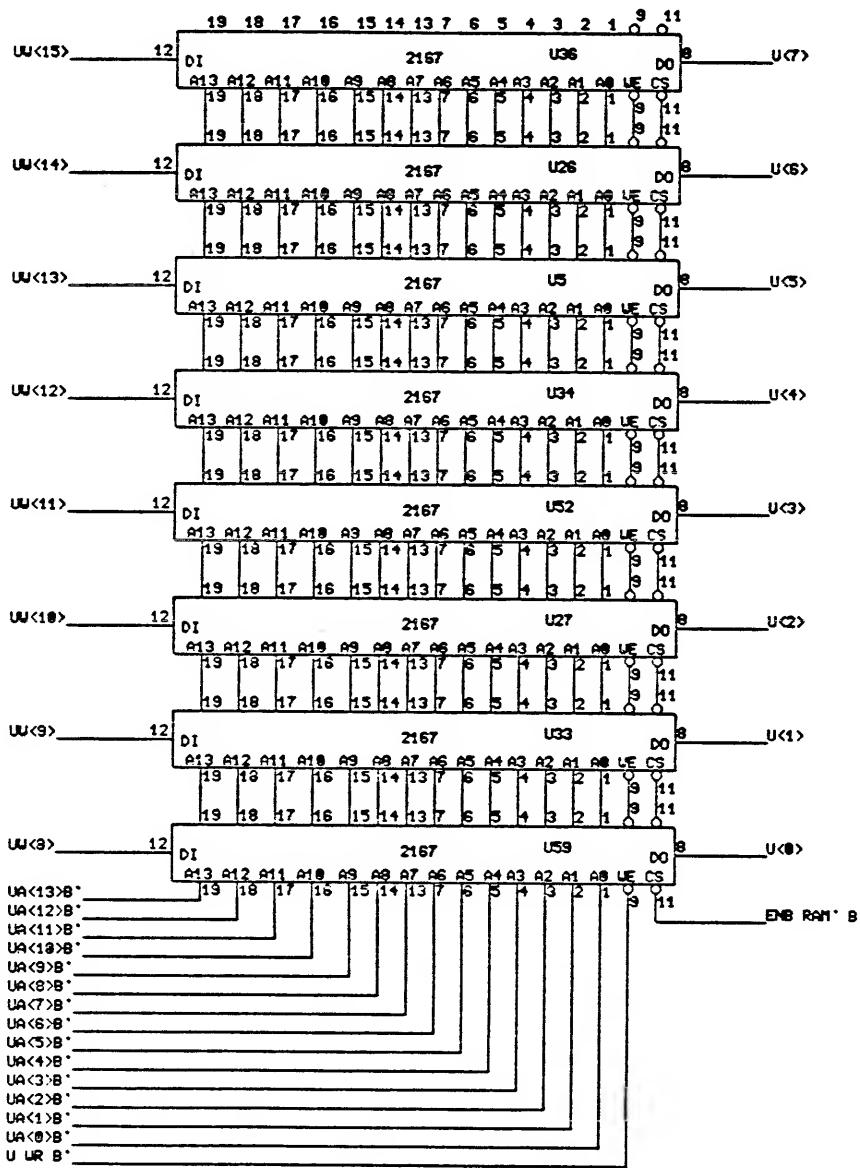


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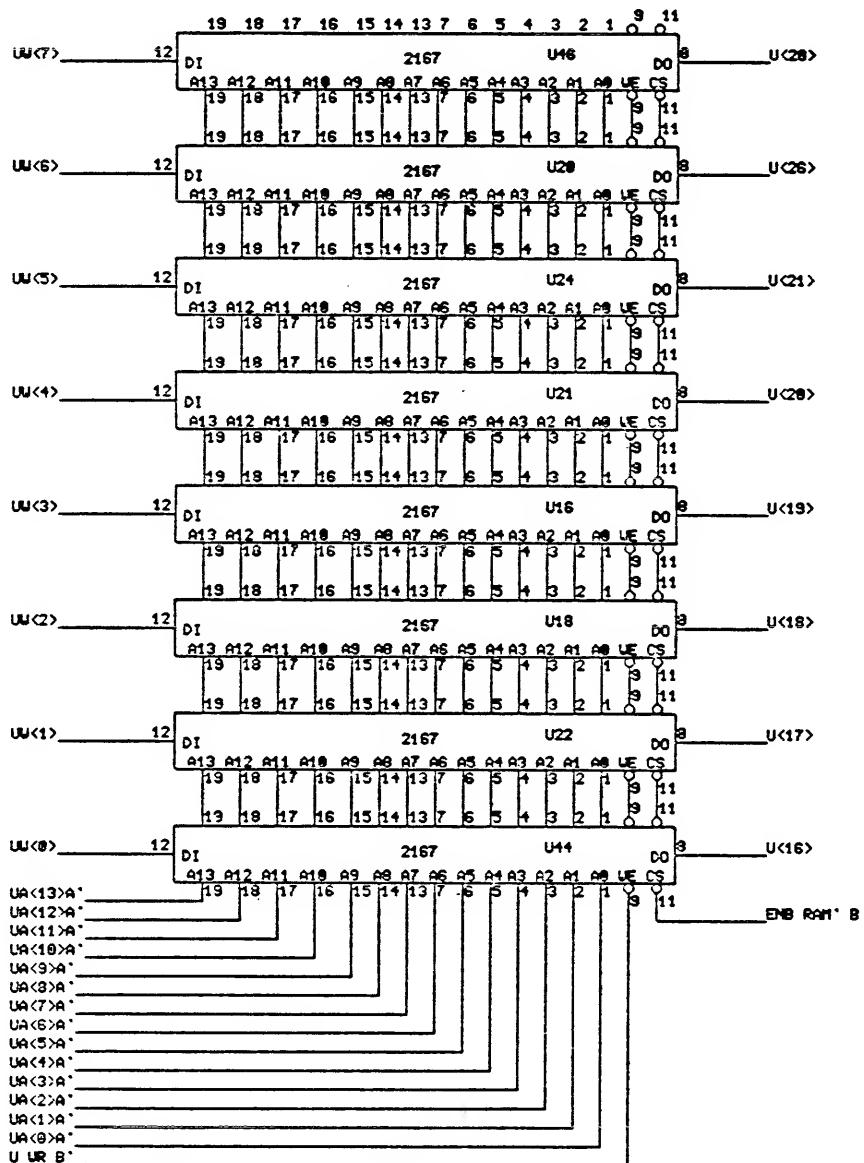
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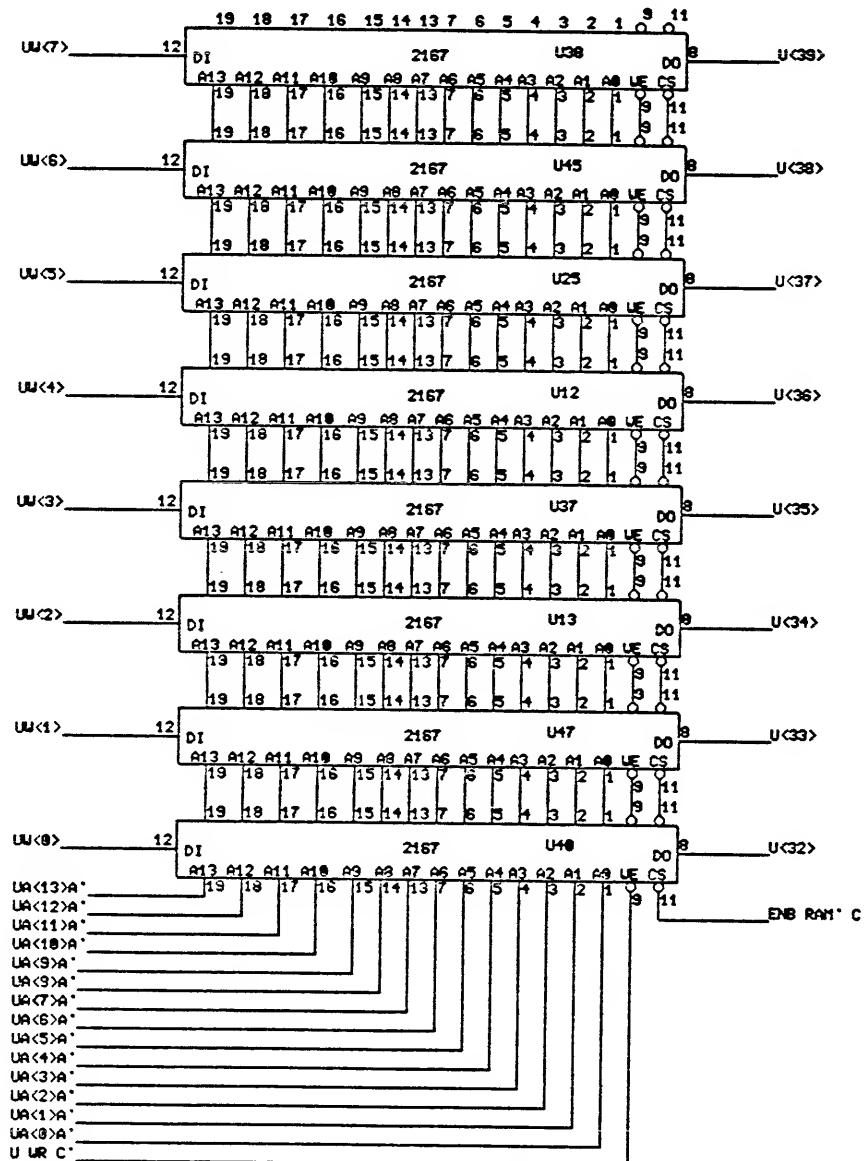
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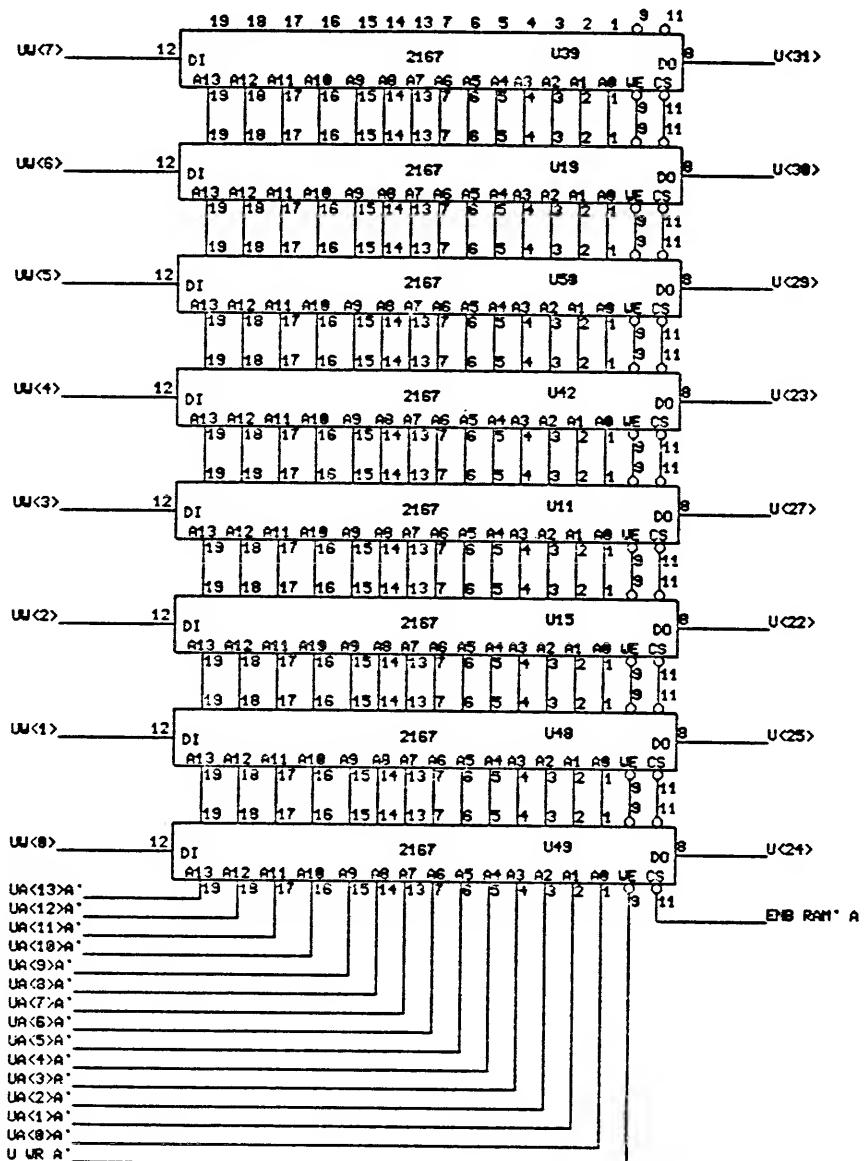
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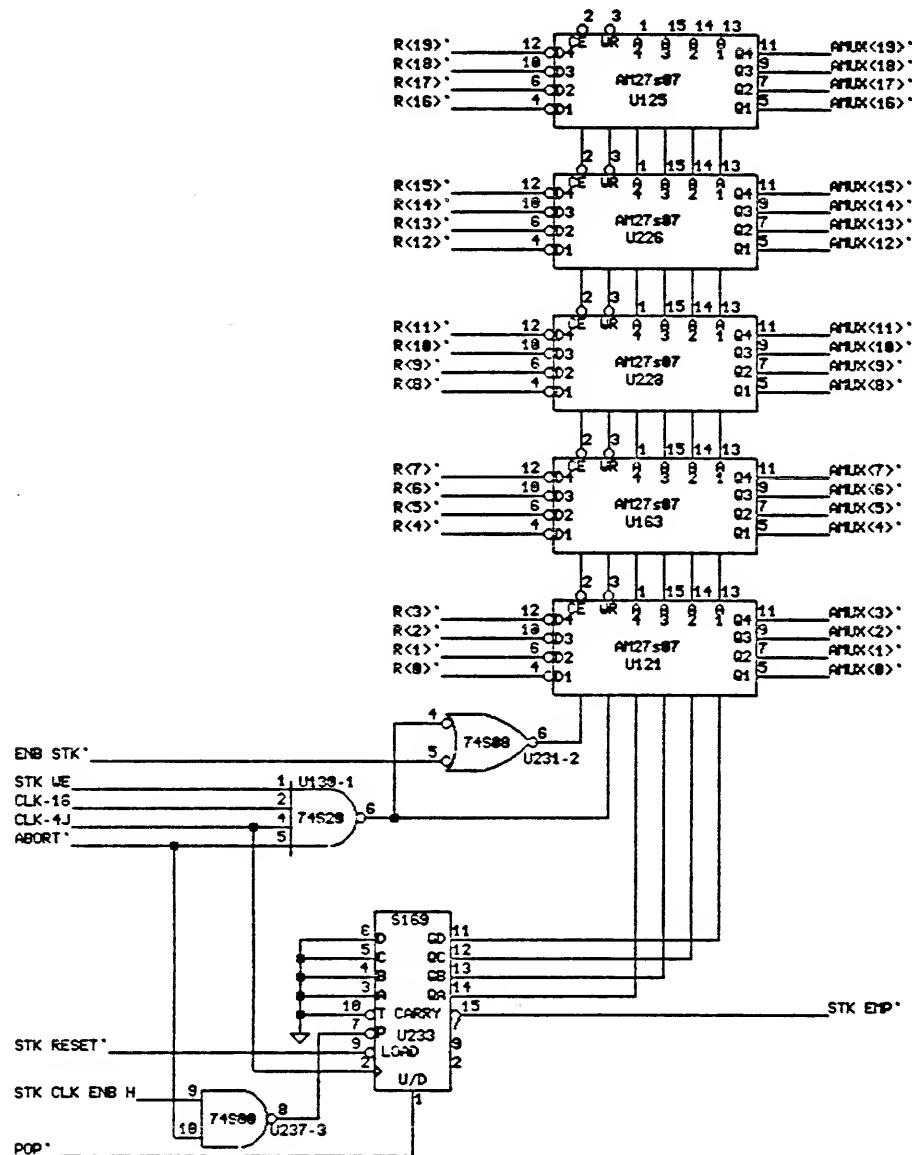
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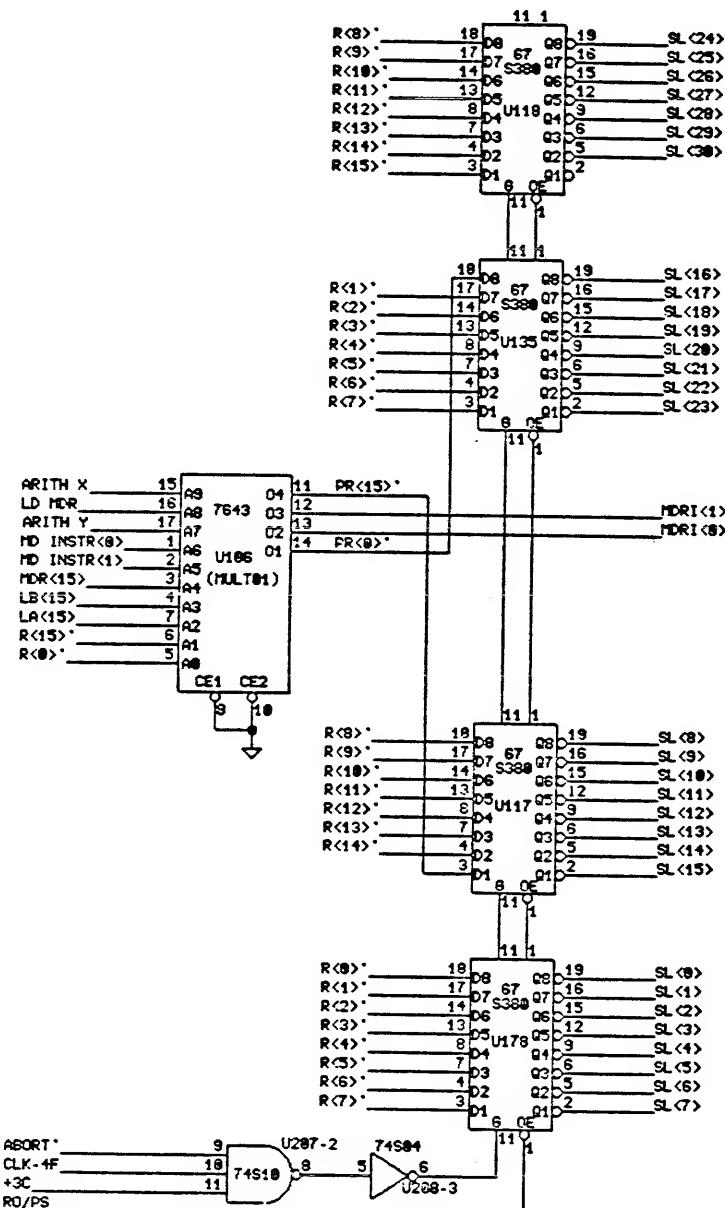
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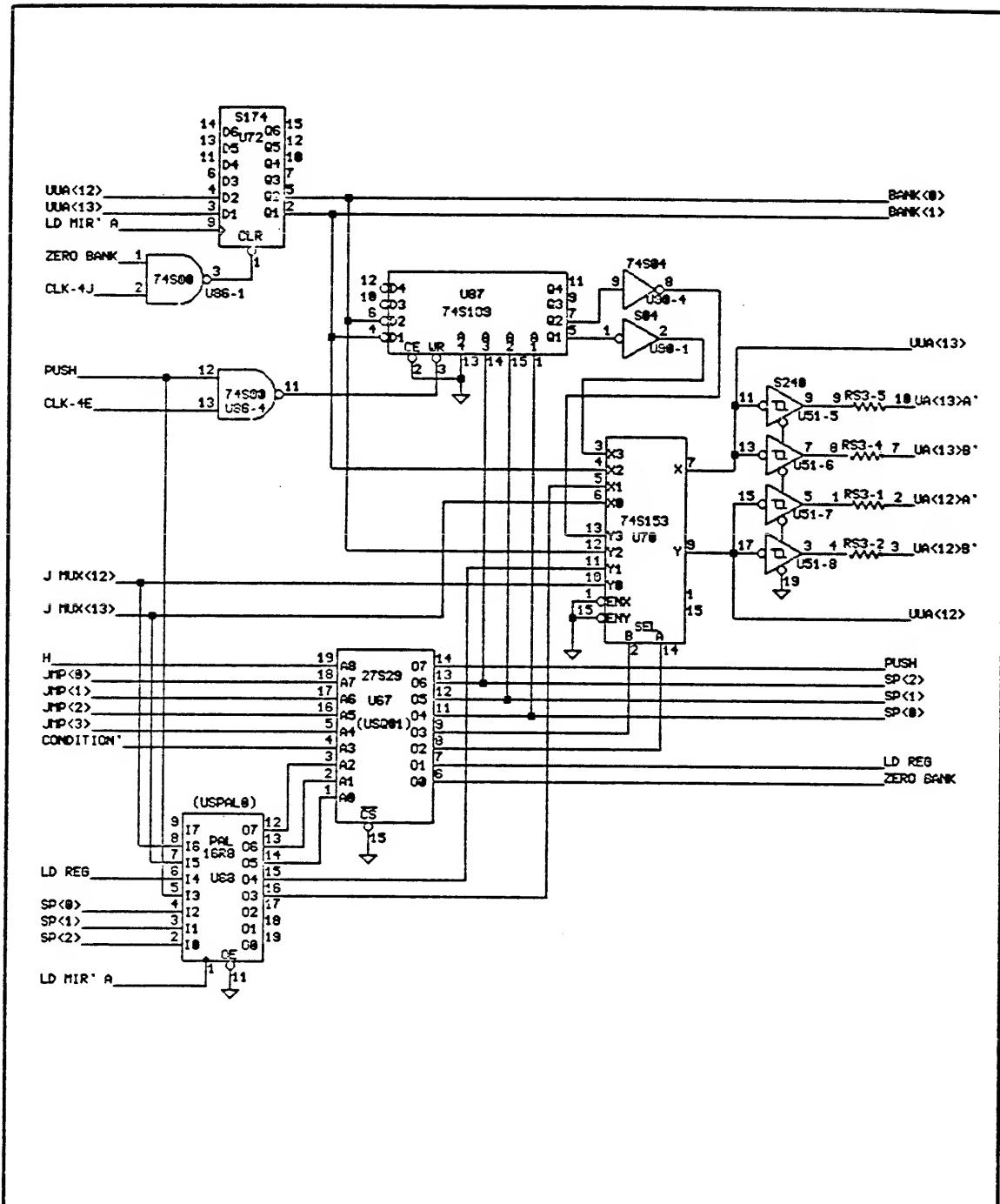
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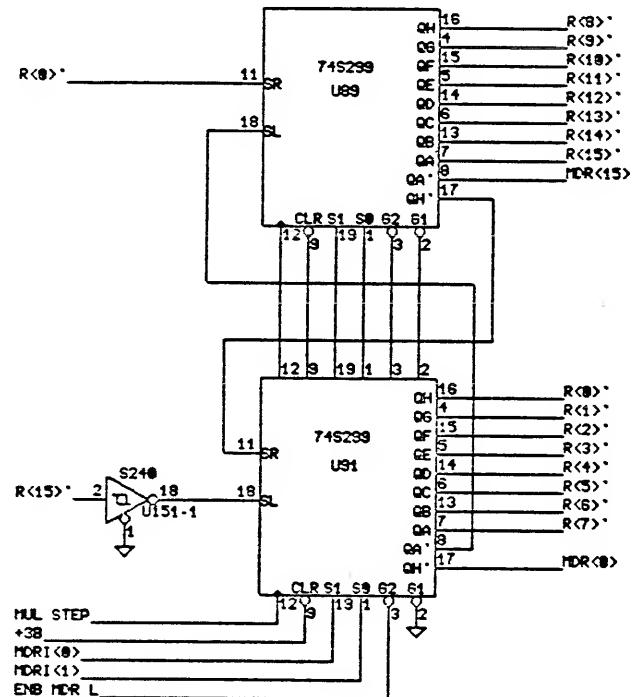
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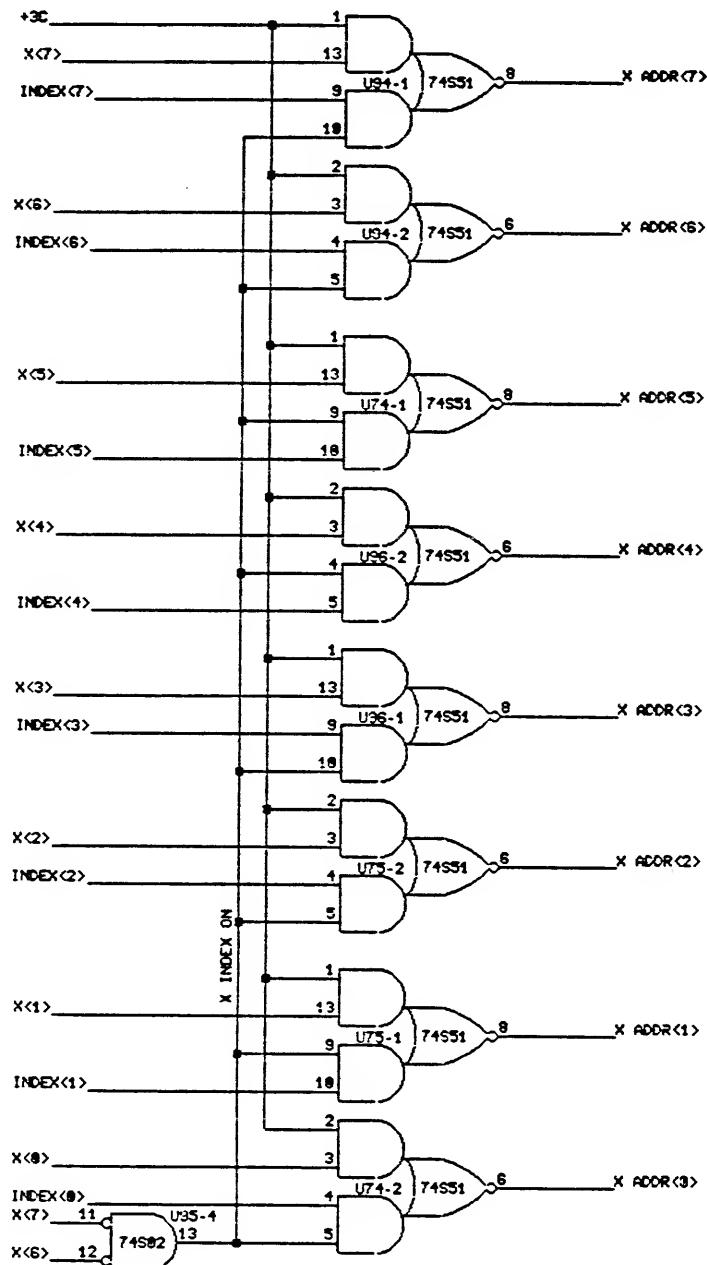
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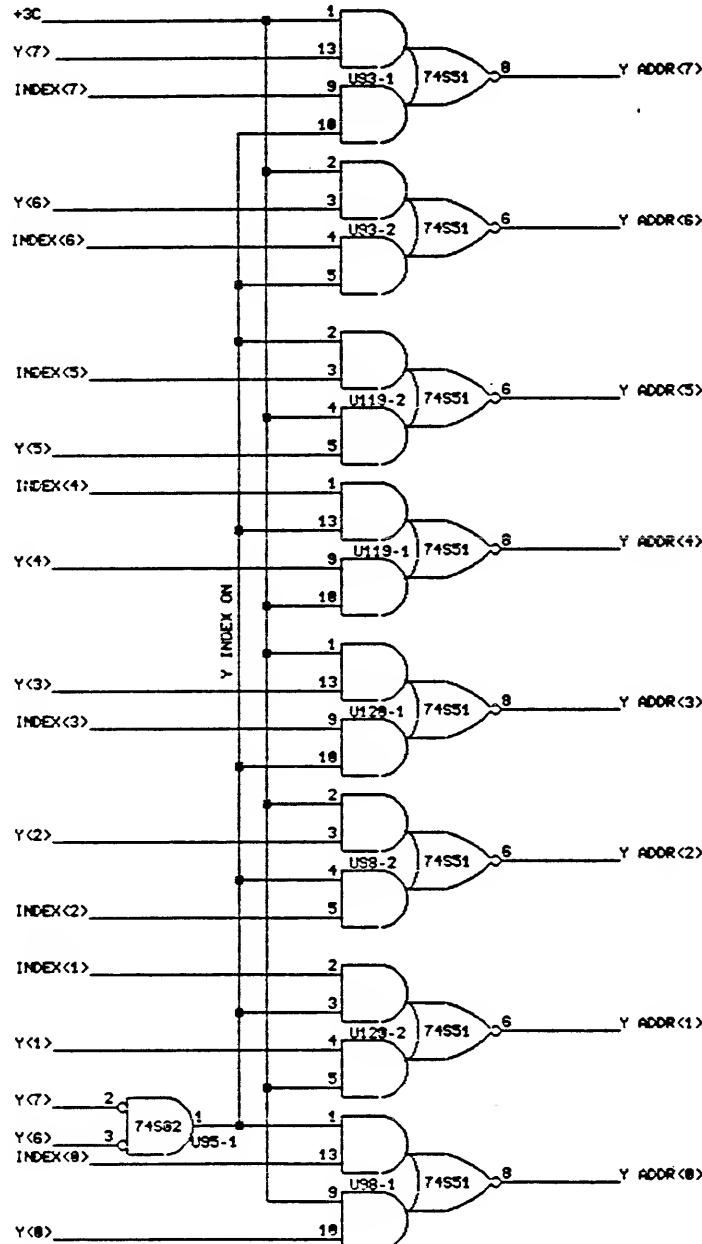
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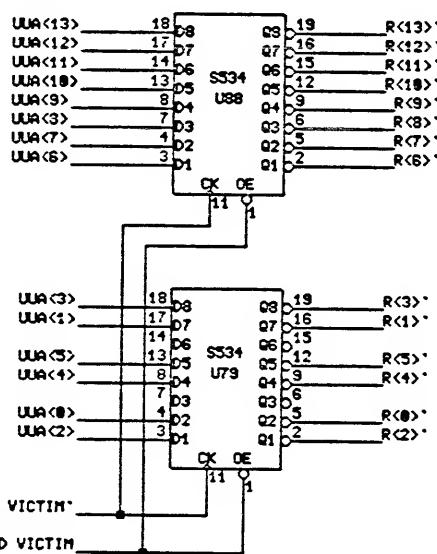
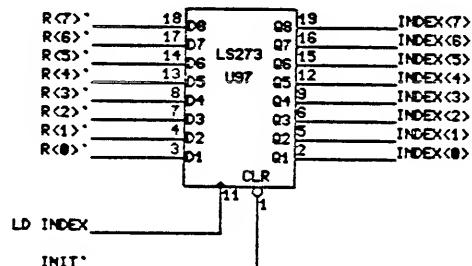
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LD MIR` B.....28 27 25 18 9  
LD OP.....30 29  
LD REG.....41  
LD S.....26 16  
LD SHIFT CMD.....26 19  
LD VICTIM`.....45 28 22  
LD W.....26 16 12  
LEFTOVER.....18 16  
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LMDO VALID H.....30 28  
LOAD MA.....29 26  
LONG CONST`.....28 7  
LONG JUMP`.....28 22  
LSS.....27 2  
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NEXT OP	.....	30	28 26 1
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NOP SF'	.....	28	
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OLD CARRY'	.....	30	26
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 PUSH.....41  
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SRC QUAD.....	18
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STK RESET`.....	39 26
STK WE.....	39 26
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U WR B`.....	36 35 28
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111332.wlist from [Ed] Printed 23 Aug 84 11:57:16

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a01.WL

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1:	U253-4 U253-8 U253-6 U253-15 U253-17	
1:	U253-13 U253-11 U254-2 U254-4 U254-8	
1:	U146-13 U146-11 U146-15 U146-17 U113-19	
1:	U61-19 U62-19 U64-19 U63-19 U103-17	
1:	U103-15 U103-11 U103-13 U102-17 U102-15	
1:	U102-4 U102-6 U102-13 U102-11 U102-8	
1:	U102-2 U83-19 U143-1 U71-1 U56-1	
1:	U157-9 U134-13 U155-13 U176-13 U196-13	
1:	U114-13 U175-13 U115-13 U195-13 U194-13	
1:	U218-13 U217-13 U221-1 U219-1 U220-8	
1:	U241-8 U222-8 U223-8 U197-10 U242-10	
1:	U198-10 U199-10 U197-8 U242-8 U198-8	
1:	U199-8 U220-10 U241-10 U222-10 U223-10	
1:	U192-1 U254-19 U238-1 C160-2 U172-14	
1:	U172-13 U169-10 U169-8 U171-15 U171-16	
1:	U170-1 U166-19 U129-15 U174-21 U179-15	
1:	U180-15 U129-19 U214-15 U173-21 U173-20	
1:	U204-10 U204-8 U84-2 U112-29 U73-1	
1:	U78-1 U65-1 U112-13 U73-19 U78-19	
1:	U65-19 U60-1 U85-1 U41-1 U43-1 U55-1	
1:	U105-15 U229-5 U229-4 U149-4 U193-15	
1:	U150-15 U150-18 U188-15 U150-17 U150-16	
1:	U193-18 U193-17 U193-16 U186-11 U189-3	
1:	U165-1 U192-19 U104-15 U185-1 U251-5	
1:	U206-1 U209-1 U250-1 U99-15 U76-15	
1:	U182-11 U161-8 U161-6 U161-4 U161-2	
1:	U182-17 U182-15 U182-13 U225-19 U206-19	
1:	U233-6 U233-5 U233-4 U233-3 U233-10	
1:	U106-10 U106-8 U51-19 U68-11 U87-13	
1:	U87-2 U67-15 U70-15 U70-1 U89-2 U91-2	
1:	U151-1 .!GND	
2:	R8-2 U238-15 C159-2	.%C159-2
3:	U232-6 J154-1	.%J154-1
4:	R7-1 J197-1 R6-2	.%R6-2
5:	C160-1 U238-2 R7-2	.%R7-2
6:	U65-5 RS1-2	.%RS1-2
7:	U65-3 RS1-3	.%RS1-3
8:	U73-18 RS1-8	.%RS1-8
9:	U65-9 RS1-9	.%RS1-9

10: U65-18 RS2-2	.%RS2-2
11: U65-7 RS2-4	.%RS2-4
12: U65-16 RS2-5	.%RS2-5
13: U65-14 RS2-7	.%RS2-7
14: U65-12 RS2-9	.%RS2-9
15: U73-7 RS4-2	.%RS4-2
16: U73-3 RS4-3	.%RS4-3
17: U73-5 RS4-5	.%RS4-5
18: U73-9 RS4-9	.%RS4-9
19: U78-16 RS5-2	.%RS5-2
20: U78-5 RS5-5	.%RS5-5
21: U73-14 RS5-7	.%RS5-7
22: U78-3 RS6-2	.%RS6-2
23: U78-7 RS6-6	.%RS6-6
24: U78-9 RS6-8	.%RS6-8
25: U78-12 RS6-9	.%RS6-9
26: U117-3 U106-11	.%U106-11
27: U90-5 U108-14	.%U108-14
28: U90-3 U108-18	.%U108-18
29: U136-18 U137-14 U116-13	.%U116-13
30: U136-17 U138-13 U116-14	.%U116-14
31: U136-14 U137-13 U116-17	.%U116-17
32: U136-13 U138-15 U116-18	.%U116-18
33: U136-7 U137-15 U116-4	.%U116-4
34: U136-3 U137-12 U116-8	.%U116-8
35: U135-11 U117-11 U178-11 U208-6 U118-11	
35:	.%U118-11

36: U228-1 U163-1 U121-1 U233-14 U226-1  
36: U125-1 .%U125-1  
  
37: U228-13 U163-13 U121-13 U233-11 U226-13  
37: U125-13 .%U125-13  
  
38: U228-14 U163-14 U121-14 U233-12 U226-14  
38: U125-14 .%U125-14  
  
39: U228-15 U163-15 U121-15 U233-13 U226-15  
39: U125-15 .%U125-15  
  
40: U228-2 U163-2 U121-2 U231-6 U226-2  
40: U125-2 .%U125-2  
  
41: U228-3 U163-3 U121-3 U130-6 U231-4  
41: U226-3 U125-3 .%U125-3  
  
42: U147-6 U127-1 .%U127-1  
  
43: U126-3 U128-2 U127-2 U129-1 .%U129-1  
  
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49: U126-8 U128-9 U127-9 U129-4 .%U129-4  
  
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52: U148-4 U129-7 .%U129-7  
  
53: U148-7 U129-8 .%U129-8  
  
54: U148-8 U129-9 .%U129-9  
  
55: U150-7 U131-4 .%U131-4  
  
56: U236-9 U131-9 .%U131-9  
  
57: U106-14 U135-18 .%U135-18  
  
58: U116-7 U136-4 U138-12 .%U138-12

59: U116-3 U136-8 U138-14	.%U138-14
60: U128-1 U147-5	.%U147-5
61: U150-9 U149-1	.%U149-1
62: U150-11 U149-2	.%U149-2
63: U150-13 U149-5	.%U149-5
64: U149-3 U150-12	.%U150-12
65: U91-18 U151-18	.%U151-18
66: U156-3 U177-8 U157-12	.%U157-12
67: U156-14 U177-17 U157-13	.%U157-13
68: U177-13 U156-18 U157-14	.%U157-14
69: U156-7 U177-4 U157-15	.%U157-15
70: U156-4 U177-7 U158-12	.%U158-12
71: U156-17 U177-14 U158-13	.%U158-13
72: U156-8 U177-3 U158-14	.%U158-14
73: U156-13 U177-18 U158-15	.%U158-15
74: U232-4 U167-2	.%U167-2
75: U170-18 U169-11	.%U169-11
76: U170-14 U169-13	.%U169-13
77: U170-13 U169-14	.%U169-14
78: U172-9 U170-17	.%U170-17
79: U171-6 U170-3	.%U170-3
80: U171-7 U170-4	.%U170-4
81: U171-8 U170-7	.%U170-7
82: U171-9 U170-8	.%U170-8
83: U170-9 U171-1	.%U171-1
84: U170-6 U171-2	.%U171-2

85: U214-12 U204-4 U173-5	.%U173-5
86: U214-9 U204-7 U173-6	.%U173-6
87: U214-7 U204-6 U173-7	.%U173-7
88: U214-4 U204-5 U173-8	.%U173-8
89: U180-17 U126-16 U179-17 U174-10	.%U174-10
90: U180-16 U126-15 U179-16 U174-11	.%U174-11
91: U180-5 U126-12 U179-5 U174-13	.%U174-13
92: U180-4 U126-9 U179-4 U174-14	.%U174-14
93: U180-3 U126-6 U179-3 U174-15	.%U174-15
94: U180-2 U126-5 U179-2 U174-16	.%U174-16
95: U180-1 U126-2 U179-1 U174-17	.%U174-17
96: U180-18 U126-19 U179-18 U174-9	.%U174-9
97: U207-3 U185-18	.%U185-18
98: U187-4 U186-18	.%U186-18
99: U186-16 U187-12	.%U187-12
100: U186-17 U187-13	.%U187-13
101: U186-14 U187-3	.%U187-3
102: U192-5 U189-12	.%U189-12
103: U168-4 U192-14	.%U192-14
104: U168-3 U192-16	.%U192-16
105: U189-13 U192-3	.%U192-3
106: U73A-6 U203-9	.%U203-9
107: U205-3 U204-14	.%U204-14
108: U73A-8 U205-10	.%U205-10
109: U204-13 U205-4 U205-5	.%U205-5
110: U205-13 U206-14	.%U206-14

111:	U209-9 U206-8	.%U206-8
112:	U208-2 U207-13	.%U207-13
113:	U207-8 U208-5	.%U208-5
114:	U210-6 U210-9	.%U210-9
115:	U211-3 U211-8 U211-2	.%U211-2
116:	U212-3 U212-4	.%U212-4
117:	U73A-3 U212-5	.%U212-5
118:	U209-7 U212-8	.%U212-8
119:	U215-12 U214-14 U214-13	.%U214-13
120:	U237-3 U214-6	.%U214-6
121:	U214-10 U215-8	.%U215-8
122:	U243-3 U220-13	.%U220-13
123:	U204-1 U173-2 U227-12	.%U227-12
124:	U173-14 U227-13	.%U227-13
125:	U173-15 U227-14	.%U227-14
126:	U204-17 U173-1 U227-15	.%U227-15
127:	U204-16 U173-23 U227-16	.%U227-16
128:	U173-16 U227-17	.%U227-17
129:	U173-17 U227-18	.%U227-18
130:	U204-15 U173-22 U227-19	.%U227-19
131:	U237-2 U227-2	.%U227-2
132:	U214-3 U227-5	.%U227-5
133:	U205-6 U231-1	.%U231-1
134:	U237-8 U233-7	.%U233-7
135:	U213-6 U191-1 U235-1	.%U235-1
136:	U237-11 U236-11	.%U236-11

137: C159-1 U238-14	.%U238-14
138: U243-14 U241-13	.%U241-13
139: U243-4 U241-14	.%U241-14
140: U243-8 U242-13	.%U242-13
141: U243-18 U242-14	.%U242-14
142: U237-6 U260-1 U243-1	.%U243-1
143: U197-13 U243-13	.%U243-13
144: U197-14 U243-17	.%U243-17
145: U220-14 U243-7	.%U243-7
146: U251-10 U250-19	.%U250-19
147: U251-2 U250-6	.%U250-6
148: U251-1 U250-9	.%U250-9
149: U250-16 U251-11	.%U251-11
150: U250-15 U251-12	.%U251-12
151: U250-12 U251-13	.%U251-13
152: U250-5 U251-3	.%U251-3
153: U250-2 U251-4	.%U251-4
154: U165-19 U254-11	.%U254-11
155: U66-1 U254-5	.%U254-5
156: U199-13 U260-13	.%U260-13
157: U222-13 U260-14	.%U260-14
158: U199-14 U260-17	.%U260-17
159: U198-14 U260-18	.%U260-18
160: U223-13 U260-3	.%U260-3
161: U222-14 U260-4	.%U260-4
162: U223-14 U260-7	.%U260-7

163: U198-13 U260-8	.%U260-8
164: RS3-4 U51-3	.%U51-3
165: RS3-1 U51-5	.%U51-5
166: RS3-8 U51-7	.%U51-7
167: RS3-9 U51-9	.%U51-9
168: U131-8 U254-15 U66-5 U66-10 U66-12	
168:	.%U66-12
169: U67-3 U68-12	.%U68-12
170: U67-2 U68-13	.%U68-13
171: U67-1 U68-14	.%U68-14
172: U70-11 U68-15	.%U68-15
173: U70-5 U68-16	.%U68-16
174: U67-8 U70-14	.%U70-14
175: U67-9 U70-2	.%U70-2
176: U90-2 U70-3	.%U70-3
177: U86-3 U72-1	.%U72-1
178: RS5-9 U73-12	.%U73-12
179: RS1-6 U73-16	.%U73-16
180: U95-13 U74-5 U94-10 U94-5 U74-9 U96-4	
180: U96-10 U75-5 U75-9	.%U75-9
181: RS6-4 U78-14	.%U78-14
182: RS5-3 U78-18	.%U78-18
183: U86-11 U87-3	.%U87-3
184: U90-9 U87-7	.%U87-7
185: U91-8 U89-18	.%U89-18
186: U87-5 U90-1	.%U90-1
187: U70-13 U90-8	.%U90-8

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189: U131-6 U95-6 .%U95-6  
190: U120-3 U95-1 U98-1 U93-10 U93-5 U119-2  
190: U119-13 U120-10 U98-4 .%U98-4  
191: U80-17 U81-17 U82-17 U111-17 U113-17  
191: U61-17 U62-17 U64-17 U63-17 R1-2  
191: U83-17 U147-13 U147-10 U174-18 U174-19  
191: .+3A  
192: U238-3 U236-10 U236-12 U173-18 U173-19  
192: U112-32 U112-15 U110-1 R3-2 U229-6  
192: U201-1 U89-9 U91-9 .+3B  
193: U213-5 R5-2 U236-1 U236-4 U207-11  
193: U94-1 U74-2 U75-1 U75-2 U96-1 U96-2  
193: U74-1 U94-2 U119-4 U93-1 U98-9 U98-2  
193: U120-1 U119-10 U93-2 U120-5 .+3C  
194: U85-9 U229-1 U188-12 .A<0>  
195: U85-12 U229-2 U188-14 .A<1>  
196: U85-15 U229-3 U188-13 .A<2>  
197: R4-2 U153-14 U152-14 U132-14 U133-14  
197: U165-8 .A=B  
198: U231-3 U213-1 U215-4 U130-10 U130-5  
198: U237-10 U207-9 .ABORT'  
199: U153-8 U154-8 U152-8 U132-8 U133-8  
199: U105-6 .ALU M  
200: U191-3 U133-9 U258-17 U255-17 U246-17  
200: U128-18 .ALU Y<0>'  
201: U235-7 U152-11 U259-7 U257-7 U249-7  
201: .ALU Y<10>'  
202: U235-8 U152-13 U259-3 U257-3 U249-3  
202: .ALU Y<11>'  
203: U153-9 U259-18 U257-18 U249-18 .ALU Y<12>'  
204: U153-10 U259-8 U257-8 U249-8 .ALU Y<13>'  
205: U153-11 U259-4 U257-4 U249-4 .ALU Y<14>'

206: U153-13 U259-14 U257-14 U249-14 .ALU Y<15>.  
 207: U143-8 U154-9 U256-14 .ALU Y<16>.  
 208: U143-7 U154-10 U256-8 .ALU Y<17>.  
 209: U143-4 U154-11 U256-13 .ALU Y<18>.  
 210: U143-3 U154-13 U256-17 .ALU Y<19>.  
 211: U191-4 U133-10 U258-13 U255-13 U246-13  
 211: U128-17 .ALU Y<1>.  
 212: U191-7 U133-11 U258-7 U255-7 U246-7  
 212: U128-14 .ALU Y<2>.  
 213: U191-8 U133-13 U258-3 U255-3 U246-3  
 213: U128-13 .ALU Y<3>.  
 214: U191-18 U132-9 U258-18 U255-18 U246-18  
 214: U128-8 .ALU Y<4>.  
 215: U191-14 U132-10 U258-8 U255-8 U246-8  
 215: U128-7 .ALU Y<5>.  
 216: U191-13 U132-11 U258-4 U255-4 U246-4  
 216: U128-4 .ALU Y<6>.  
 217: U191-17 U132-13 U258-14 U255-14 U246-14  
 217: U128-3 .ALU Y<7>.  
 218: U235-3 U152-9 U259-17 U257-17 U249-17  
 218: .ALU Y<8>.  
 219: U235-4 U152-10 U259-13 U257-13 U249-13  
 219: .ALU Y<9>.  
 220: U85-16 U105-4 .ALU<0>  
 221: U85-19 U105-3 .ALU<1>  
 222: U85-5 U105-2 .ALU<2>  
 223: U85-2 U105-1 .ALU<3>  
 224: U153-6 U154-6 U152-6 U132-6 U133-6  
 224: U105-11 .ALUF<0>  
 225: U153-5 U154-5 U152-5 U132-5 U133-5  
 225: U105-9 .ALUF<1>  
 226: U153-4 U154-4 U152-4 U132-4 U133-4

226: U105-8 .ALUF<2>  
227: U153-3 U154-3 U152-3 U132-3 U133-3  
227: U105-7 .ALUF<3>  
228: U161-3 U80-16 U247-16 U245-5 U202-12  
228: U140-3 U139-12 U133-2 U121-5 .AMUX<0>.  
229: U82-12 U253-16 U252-2 U225-16 U254-16  
229: U248-19 U152-21 U228-9 .AMUX<10>.  
230: U82-14 U253-18 U252-5 U254-18 U225-18  
230: U248-16 U152-19 U228-11 .AMUX<11>.  
231: U111-16 U253-3 U252-6 U123-3 U202-3  
231: U248-15 U153-2 U226-5 .AMUX<12>.  
232: U111-10 U253-5 U252-15 U123-5 U248-6  
232: U202-5 U153-23 U226-7 .AMUX<13>.  
233: U111-12 U253-7 U252-9 U123-7 U248-12  
233: U202-7 U153-21 U226-9 .AMUX<14>.  
234: U111-14 U253-9 U252-12 U123-9 U248-9  
234: U202-9 U153-19 U165-3 U226-11 .AMUX<15>.  
235: U113-16 U230-9 U146-3 U145-14 U154-2  
235: U125-5 .AMUX<16>.  
236: U113-10 U230-6 U146-5 U145-15 U154-23  
236: U125-7 .AMUX<17>.  
237: U113-12 U230-5 U146-7 U145-16 U154-21  
237: U125-9 .AMUX<18>.  
238: U113-14 U230-2 U146-9 U145-17 U154-19  
238: U125-11 .AMUX<19>.  
239: U161-5 U80-10 U247-19 U245-2 U202-14  
239: U140-5 U139-14 U133-23 U121-7 .AMUX<1>.  
240: U161-7 U80-12 U247-2 U245-19 U140-7  
240: U139-16 U202-16 U133-21 U121-9 .AMUX<2>.  
241: U161-9 U80-14 U247-5 U245-16 U202-18  
241: U140-9 U139-18 U133-19 U121-11 .AMUX<3>.  
242: U182-12 U81-16 U247-6 U245-15 U185-3  
242: U140-12 U139-3 U132-2 U163-5 .AMUX<4>.  
243: U182-14 U81-10 U247-15 U245-6 U185-5  
243: U140-14 U139-5 U132-23 U163-7 .AMUX<5>.

244: U182-16 U81-12 U247-9 U245-12 U185-7  
244: U140-16 U139-7 U132-21 U163-9 .AMUX<6>·  
  
245: U182-18 U81-14 U247-12 U245-9 U185-9  
245: U140-18 U139-9 U132-19 U163-11 .AMUX<7>·  
  
246: U82-16 U253-12 U252-16 U254-12 U225-12  
246: U248-5 U152-2 U228-5 .AMUX<8>·  
  
247: U82-10 U253-14 U252-19 U254-14 U225-14  
247: U248-2 U152-23 U228-7 .AMUX<9>·  
  
248: U145-7 U105-12 U186-2 U106-15 .ARITH X  
  
249: U145-8 U105-13 U186-3 U106-17 .ARITH Y  
  
250: U253-19 U253-1 U188-5 .AZRO<15:8>·  
  
251: U146-19 U188-6 .AZRO<19:16>·  
  
252: U139-19 U139-1 U188-4 .AZRO<7:0>·  
  
253: U61-18 U62-18 U64-18 U63-18 U83-18  
253: U110-2 U86-10 U86-4 .B  
  
254: U160-14 U181-14 U159-14 U200-14 U208-8  
254: U210-5 .B TIME<0>·  
  
255: U160-13 U181-13 U159-13 U200-13 U231-8  
255: U210-4 .B TIME<1>·  
  
256: U84-17 U70-12 U87-6 U72-5 .BANK<0>  
  
257: U84-15 U70-4 U87-4 U72-2 .BANK<1>  
  
258: U62-16 U101-3 U133-1 .BMUX<0>·  
  
259: U63-12 U123-16 U102-7 U152-20 .BMUX<10>·  
  
260: U63-14 U123-18 U102-9 U152-18 .BMUX<11>·  
  
261: U64-16 U103-3 U124-12 U153-1 .BMUX<12>·  
  
262: U64-10 U103-5 U124-14 U153-22 .BMUX<13>·  
  
263: U64-12 U103-7 U124-16 U153-20 .BMUX<14>·  
  
264: U64-14 U103-9 U124-18 U153-18 U165-4  
264: .BMUX<15>·  
  
265: U123-17 U83-16 U102-14 U154-1 .BMUX<16>·

266:	U123-15 U83-10 U102-18 U154-22	.BMUX<17>`
267:	U123-13 U83-12 U102-12 U154-20	.BMUX<18>`
268:	U123-11 U102-16 U83-14 U154-18	.BMUX<19>`
269:	U62-10 U101-5 U133-22	.BMUX<1>`
270:	U62-12 U101-7 U133-20	.BMUX<2>`
271:	U62-14 U101-9 U133-18	.BMUX<3>`
272:	U61-16 U101-12 U132-1	.BMUX<4>`
273:	U61-10 U101-14 U132-22	.BMUX<5>`
274:	U61-12 U101-16 U132-20	.BMUX<6>`
275:	U61-14 U101-18 U132-18	.BMUX<7>`
276:	U63-16 U123-12 U102-3 U152-1	.BMUX<8>`
277:	U63-10 U123-14 U102-5 U152-22	.BMUX<9>`
278:	U150-8 U201-9	.BPC:=
279:	U202-8 U208-3 U201-14 U203-12	.BPC<0>
280:	U208-4 U203-1	.BPC<0>`
281:	U160-5 U181-5 U202-6 U159-5 U200-5	
281:	U201-13	.BPC<1>
282:	U160-4 U181-4 U202-4 U159-4 U200-4	
282:	U201-12	.BPC<2>
283:	U202-2 U192-13 U201-11 U189-15 U205-1	
283:		.BPC<3>
284:	U192-7 U203-13 U203-2 U161-1 U182-19	
284:		.BPC<3>`
285:	U101-1 U101-19 U102-1 U110-3	.B`
286:	U154-7 U153-16 U165-7	.C<15>
287:	U154-16 U165-13	.CARRY<19>
288:	U157-19 U158-1 U137-19 U138-1 U171-12	
288:		.CLK FIFO IN

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289: U211-9 U212-6 U203-10 .CLK FIFO OUT  
290: U255-11 U257-11 U256-11 U234-10 .CLK MA'R<5>  
291: U224-11 U247-11 U244-11 U252-11 U230-11  
291: U232-8 .CLK MDOR  
292: U260-11 U243-11 U234-8 .CLK-OR A  
293: U249-11 U246-11 U221-11 U219-11 U234-6  
293: U209-11 .CLK-OR B  
294: U237-12 U236-3 U165-11 U234-12 .CLK-OR C  
295: U227-11 U234-4 U250-11 .CLK-OR D  
296: U73A-4 U130-13 U77-4 U90-13 U130-2  
296: .CLK-16  
297: U239-1 U77-10 .CLK-26  
298: U208-1 U77-6 .CLK-36  
299: U211-10 U234-1 U77-8 .CLK-46  
300: U237-5 U147-11 U148-11 U126-11 U95-5  
300: U210-13 U92-6 U232-10 U73A-5 U240-11  
300: U232-12 U213-11 U86-13 .CLK-4E  
301: U157-1 U158-19 U137-1 U138-19 U240-3  
301: U76-1 U99-1 U207-10 .CLK-4F  
302: U149-6 U207-5 U234-3 U234-5 U234-13  
302: U234-9 U77-1 U240-6 .CLK-4G  
303: U211-11 U215-5 U213-2 U95-8 U207-1  
303: U240-8 U130-4 U233-2 U86-2 .CLK-4J  
304: U131-5 U130-9 U234-2 .CLK-51R  
305: U95-9 U232-1 U77-12 .CLK-6  
306: U239-2 U240-10 J176-1 U240-5 U240-9  
306: U240-1 U240-12 U240-2 U240-4 U240-13  
306: .CLK-7R  
307: U92-4 U90-12 .CLK20R  
308: U147-9 U73A-1 .CLR FIFO L  
309: U132-7 U142-12 .CN+X

310: U152-7 U142-11	.CN+Y
311: U153-7 U142-9	.CN+Z
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313: U41-9 U187-11 U189-11	.CND<0>
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316: U41-2 U185-8 U189-7	.CND<3>
317: U185-12 U187-7	.CND<3>*
318: U112-14 U187-6 U189-6 U67-4	.CONDITION*
319: U236-13 U212-9 U210-8	.CONT*
320: U185-13 U186-13 U187-15	.CRY
321: U254-3 J196-1	.DIAG INC
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324: U206-4 U209-15	.DLY QUAL FIFO
325: U206-16 U73A-2	.DLY QUAL FIFO*
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328: U108-13 U131-1	.DON'T PAGE*
329: U212-12 U209-5	.DON'T WRCS*
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331: U164-16 U166-3 U174-1	.DST BITS<1>
332: U164-15 U166-2 U174-23	.DST BITS<2>
333: U164-12 U166-1 U174-22	.DST BITS<3>
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337: U219-16 U197-3	.DST<0>
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348: U219-15 U242-2	.DST<5>
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356: U247-1 U252-1 U229-12	.EMDO
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358: U144-1 U104-4	.ENB DISPATCH
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 363: U230-1 U229-11 .ENB MDX  
 364: U162-19 U162-1 U104-2 U203-5 .ENB NEXT INST  
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 368: U29-11 U6-11 U35-11 U49-11 U48-11  
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 369: U52-11 U27-11 U33-11 U59-11 U46-11  
 369: U20-11 U24-11 U21-11 U16-11 U18-11  
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387: U157-11 U172-6 .FIFO EVEN/ODD  
388: U157-17 U210-2 .FIFO OR  
389: U133-17 U142-3 .G<0>.  
390: U132-17 U142-1 .G<1>.  
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411: U254-7 J72-1	.INIT L
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412: U238-4 U227-1 U69-1 U97-1	.INIT
413: U209-3 U251-15	.INT P
414: U189-2 U209-2	.INTR PEND
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417: J68-1 U225-7	.IOA<2>
418: U225-9 J168-1	.IOA<3>
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420: J167-1 U206-5	.IOA<5>
421: J66-1 U206-7	.IOA<6>
422: J166-1 U206-9	.IOA<7>
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459: U156-11 U116-11 U211-6 .L SHIFT IN<1>·  
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554: U173-11 J182-1	.MEM RQST ST<1>
555: U173-10 J183-1	.MEM RQST ST<2>
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569: U241-17 U179-6	.MSK<7>
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571: U199-17 U180-13	.MSK<9>
572: U145-1 U149-10 U89-12 U91-12	.MUL STEP
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575: U182-1 U161-19 U229-14 U203-4 U206-6	

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 577: U90-11 U108-17 U86-9 .NOP SF  
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 579: U105-5 U209-12 .OLD CARRY  
 580: U157-8 U170-16 U172-5 .OLD EVEN/ODD  
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 587: .OP<6>  
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 599: U190-5 U212-1 .PHASE<4>  
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 602: U86-12 U67-14 U68-5 .PUSH  
 603: U212-2 U169-12 U209-14 .QUAL FIFO  
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 604: U168-18 U167-18 U164-18 U121-4 U178-18  
 604: U106-5 U91-16 U89-11 U97-3 U79-5  
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 607: U118-8 U89-14 U88-16 .R<12>\*  
 608: U111-9 U64-9 U235-15 U56-14 U226-6  
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 609: U118-4 U89-13 .R<14>\*  
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 615: U167-17 U164-17 U121-6 U135-17 U178-17  
 615: U91-4 U97-4 U79-16 .R<1>\*  
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626: U149-11 U212-10 .RELD OP  
627: U100-1 U107-1 U104-3 U73A-10 .REVIVE VICTIM·  
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765: U254-6 U233-15	.STK EMP*
766: U193-6 U236-2 U233-9	.STK RESET*
767: U193-7 U130-1	.STK WE
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771: U21-9 U16-9 U18-9 U22-9 U44-9	.U WR B*
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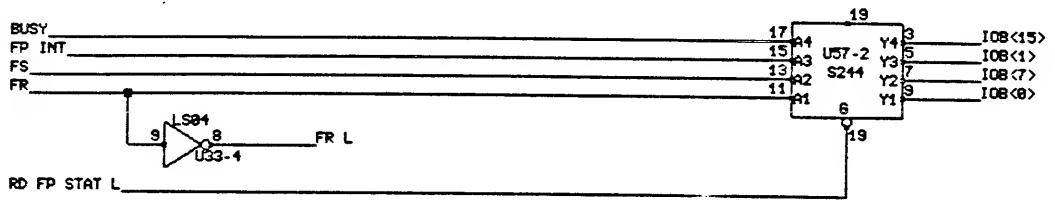
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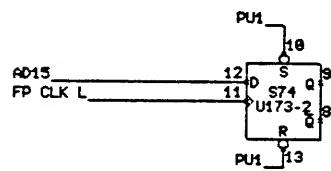
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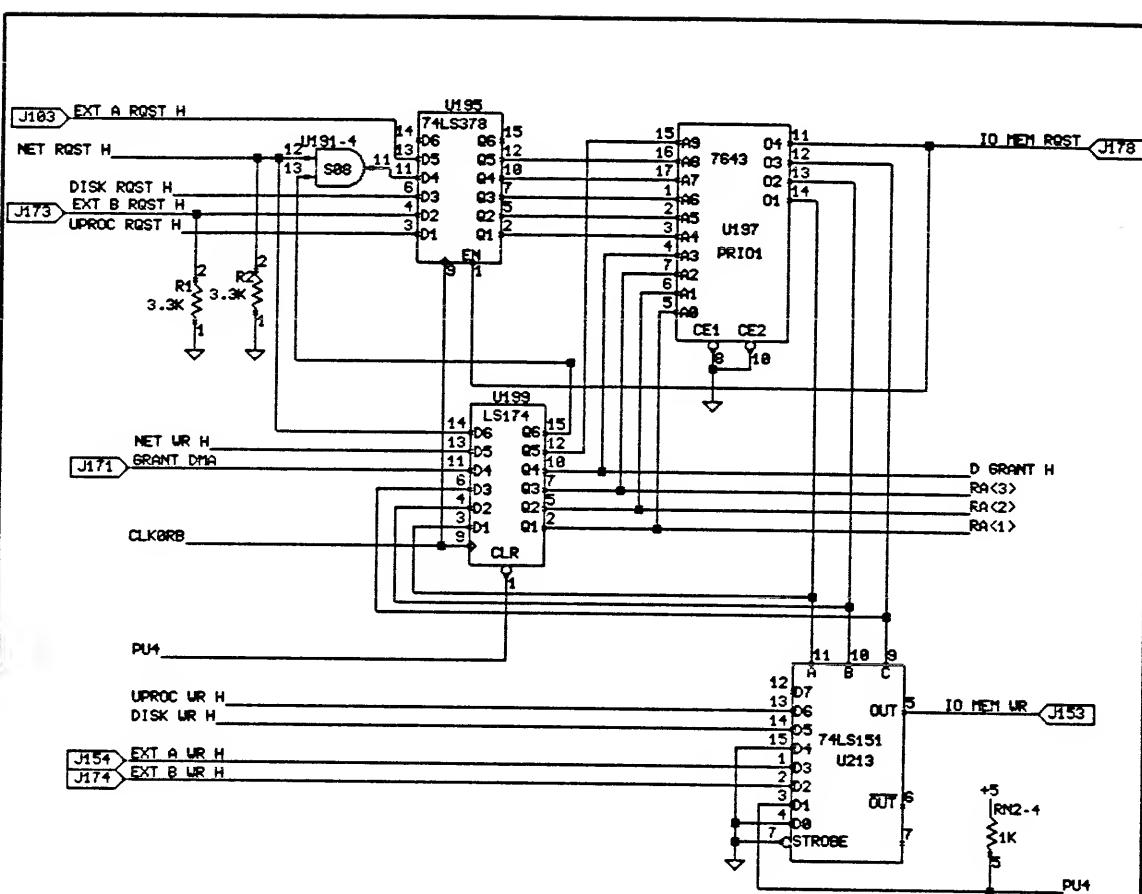


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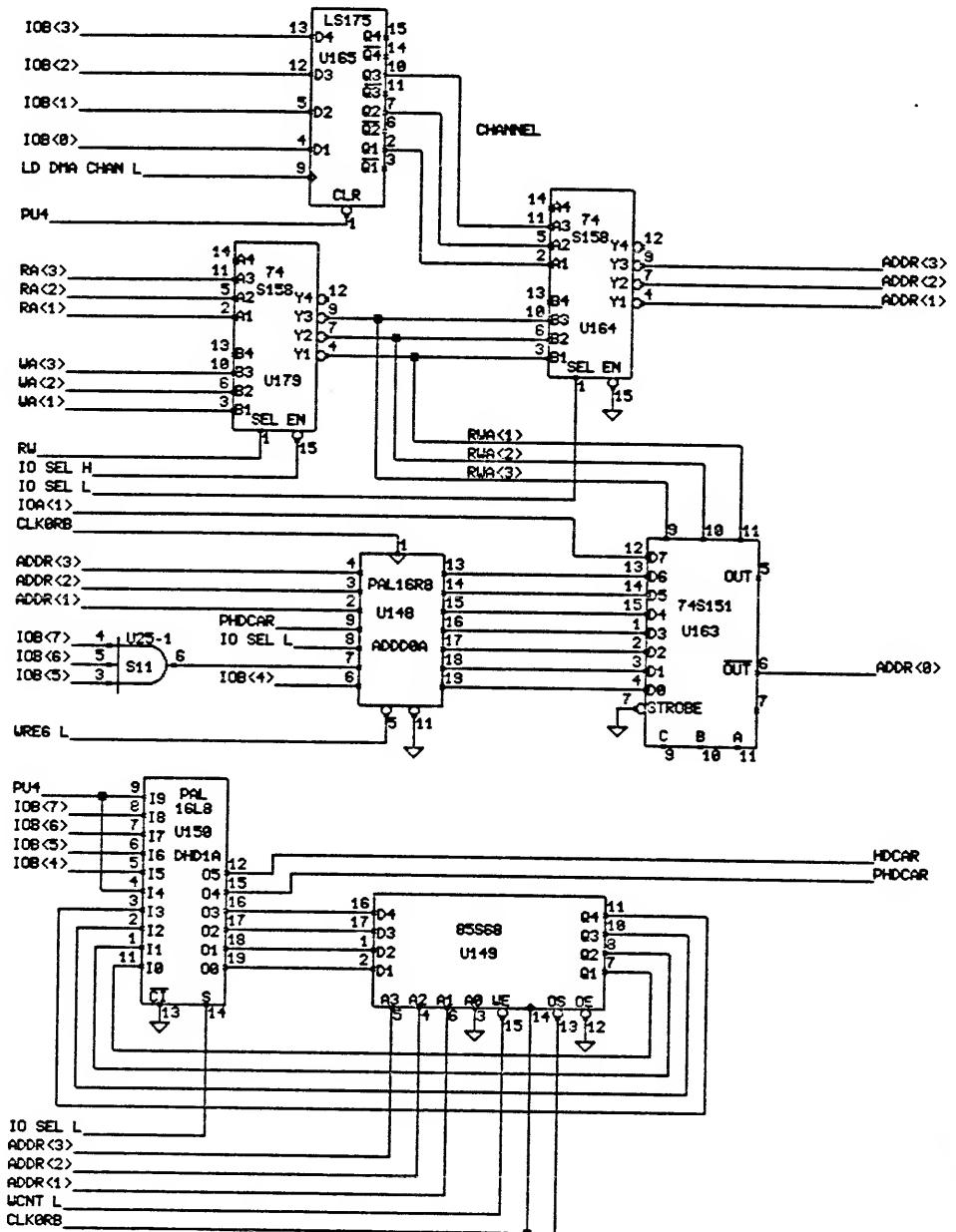
**PERO**



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Disk	5	2	12	13
Net Xmit	4	3	10	11
Ext A	3	4	6	7
Ext B	2	5	4	5
Net Rev	1	6	2	3
Idle	8	7	/load RAM	

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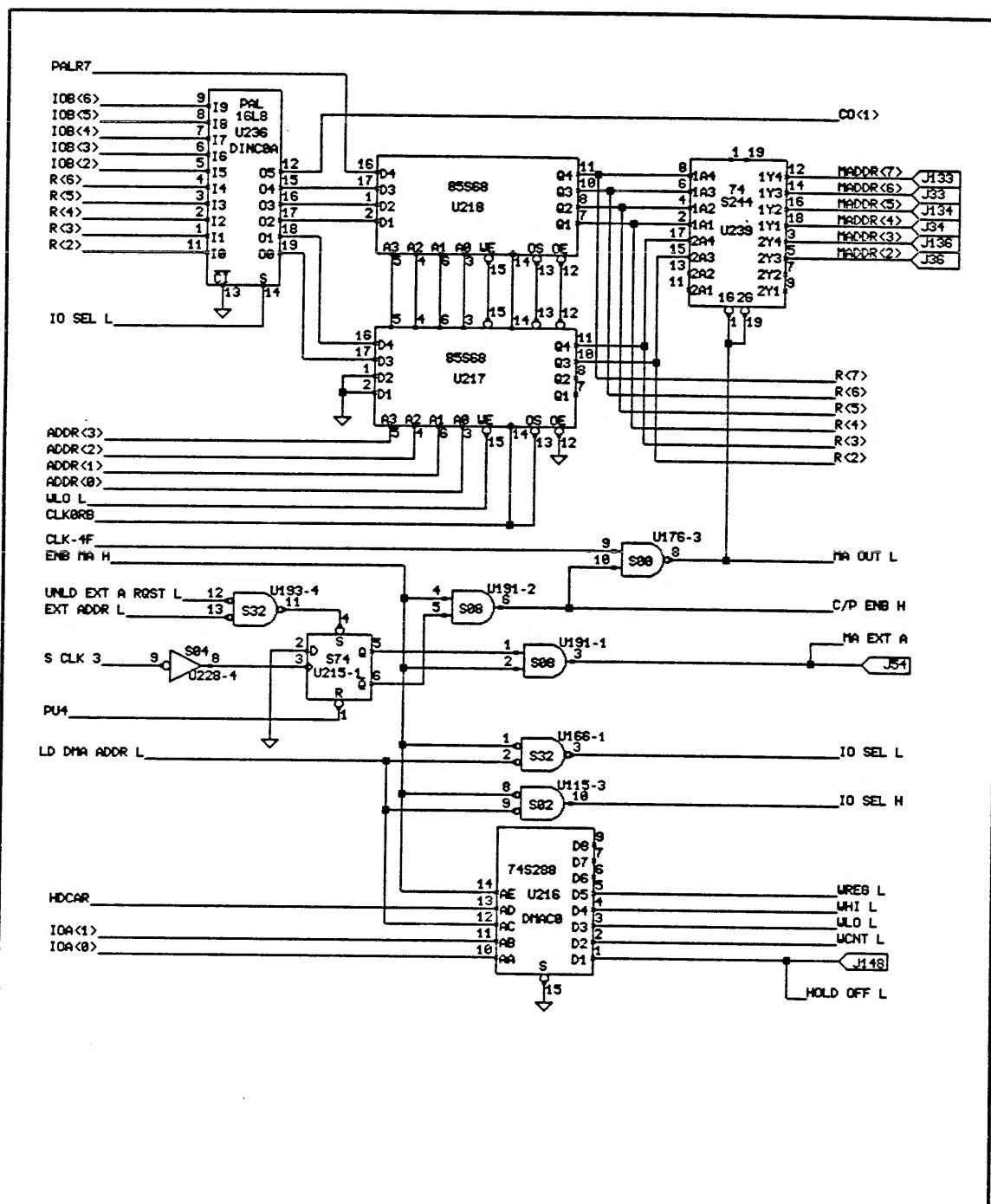


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RAM ADDRESSING

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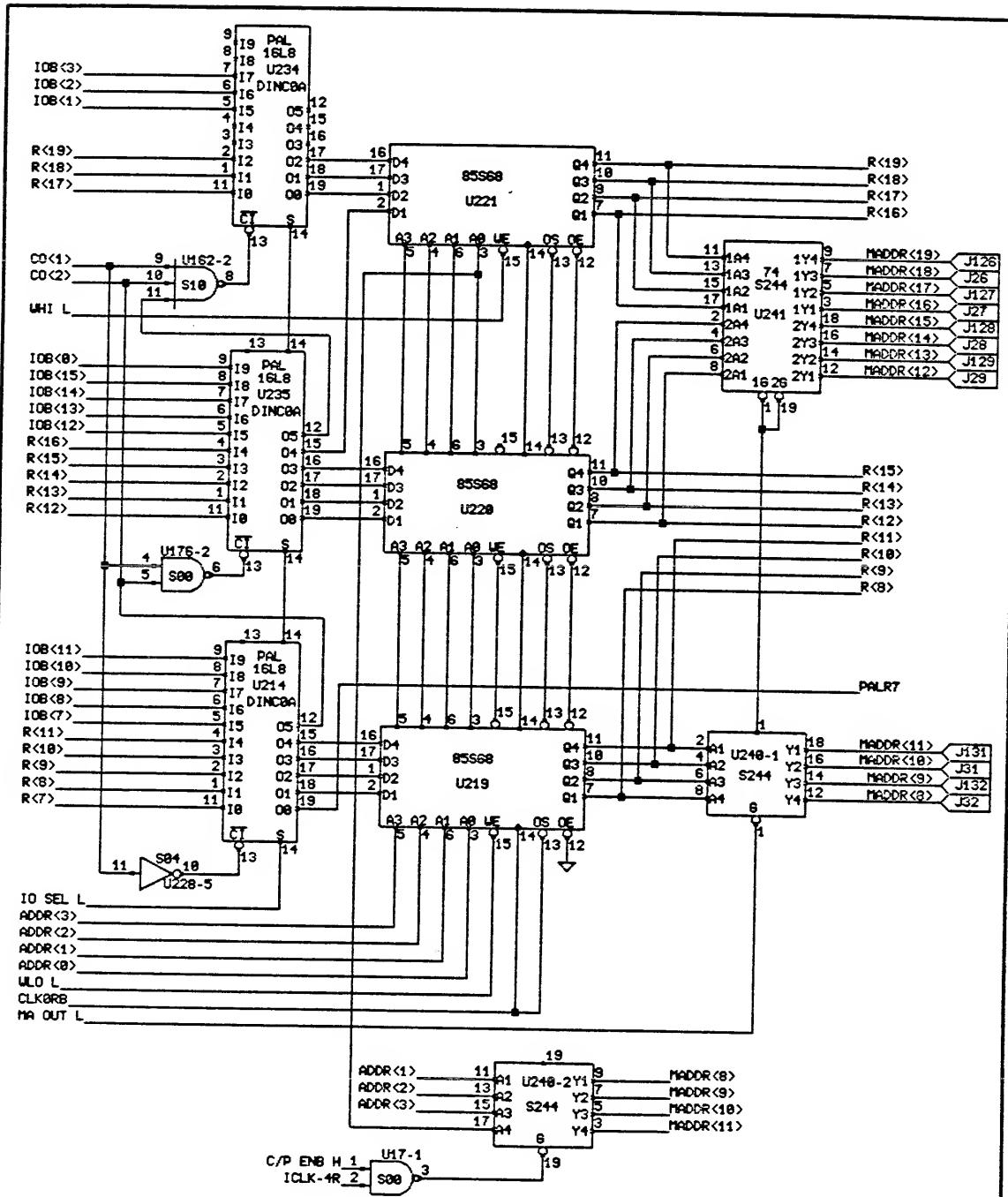


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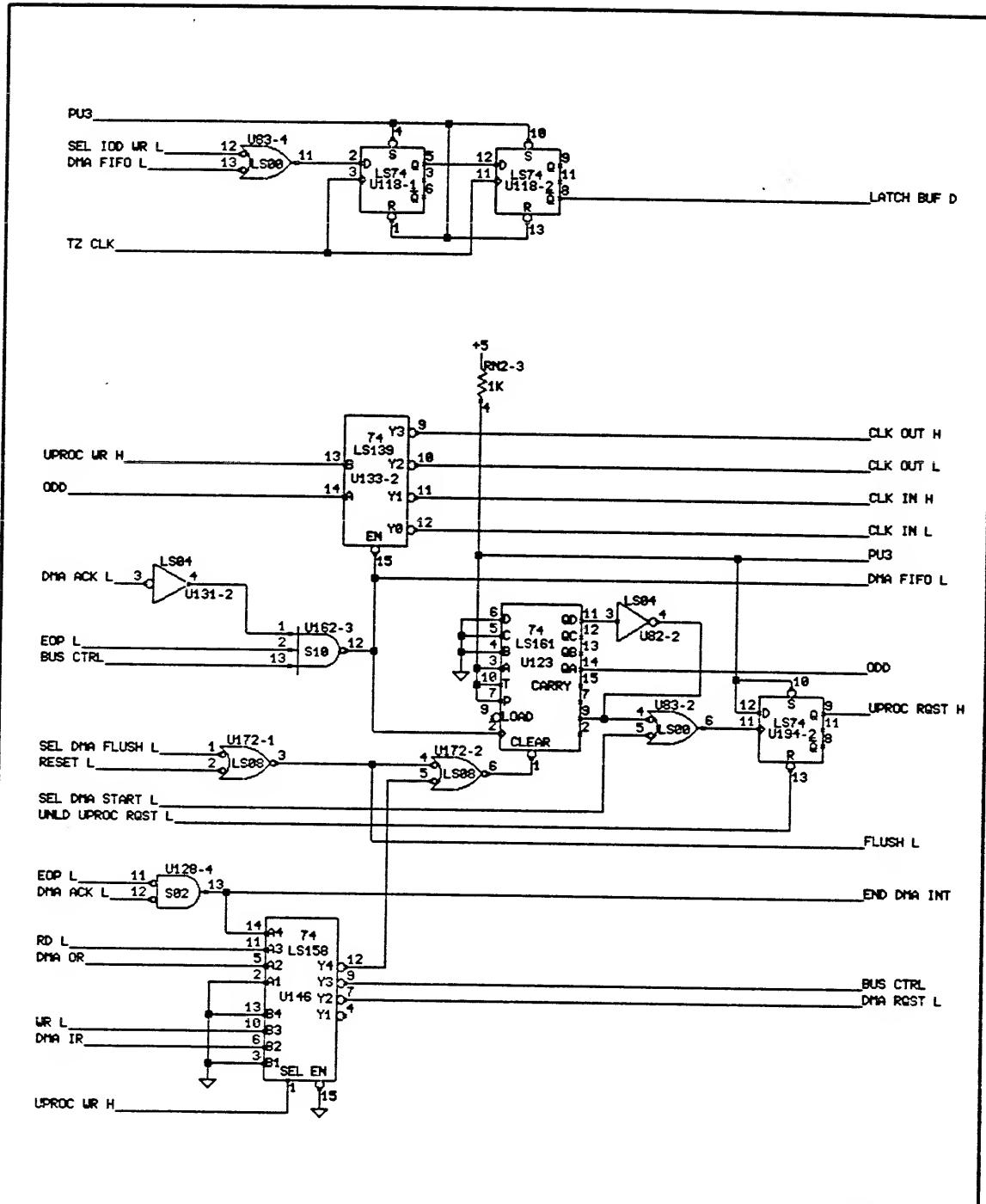
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TITLE DMA ADDRESS RAM

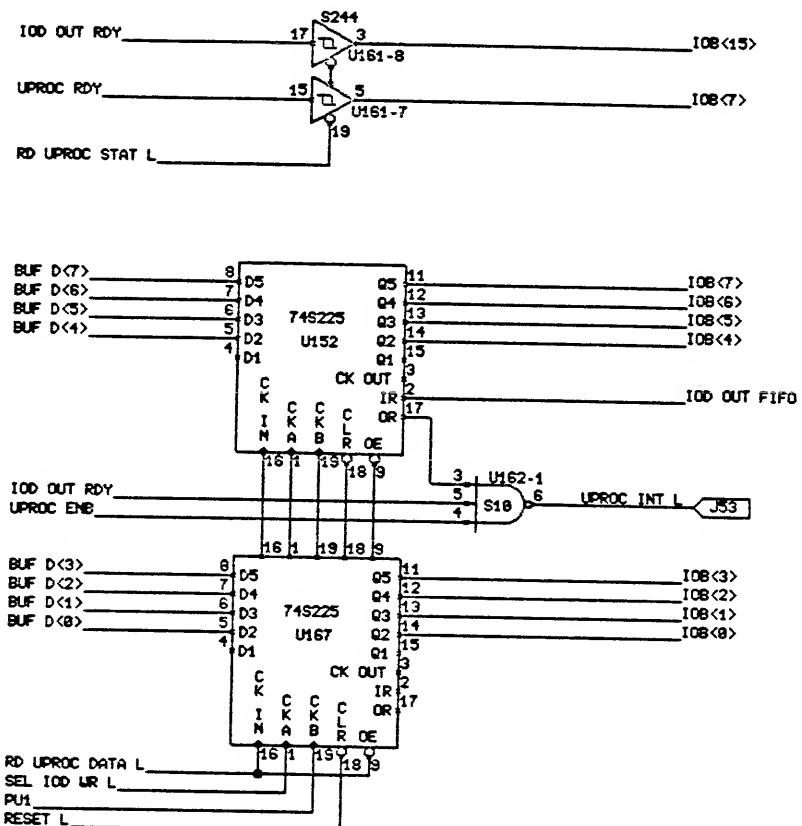
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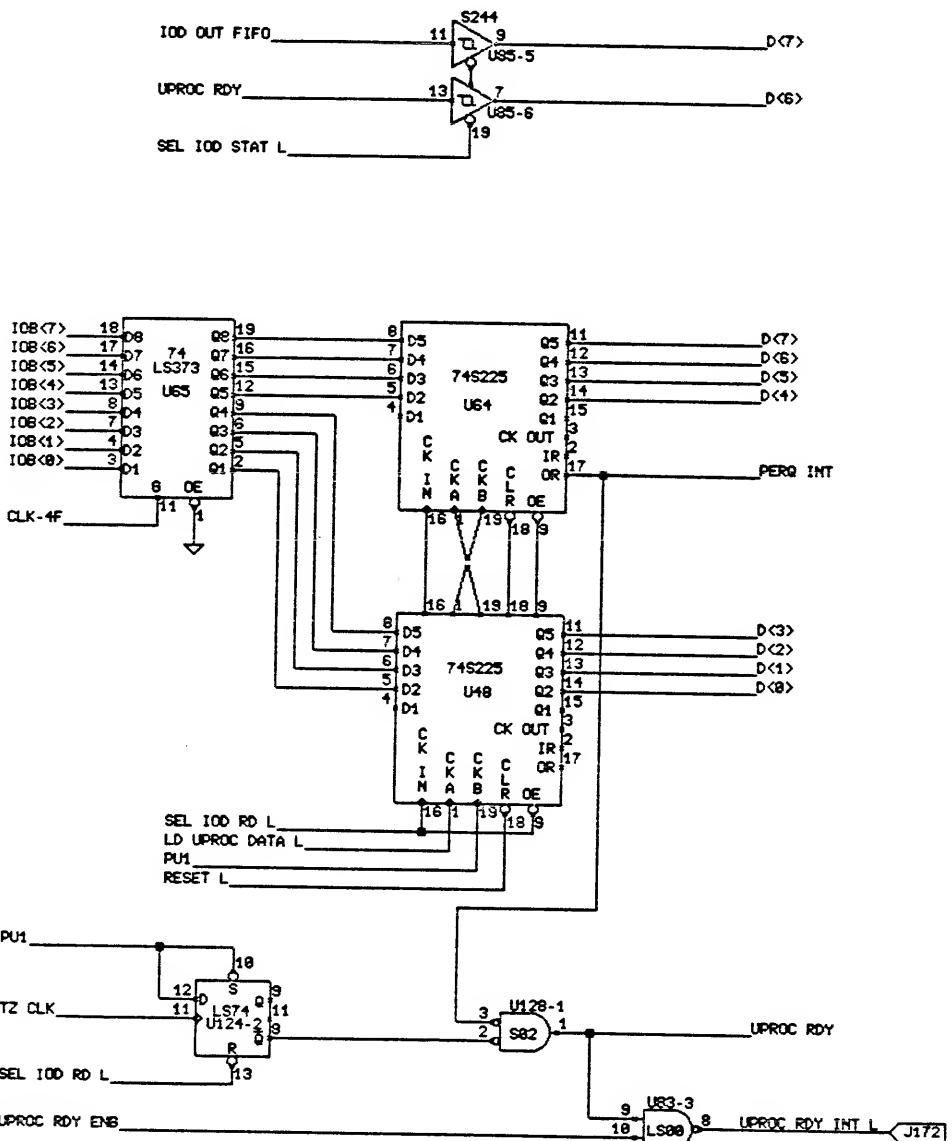
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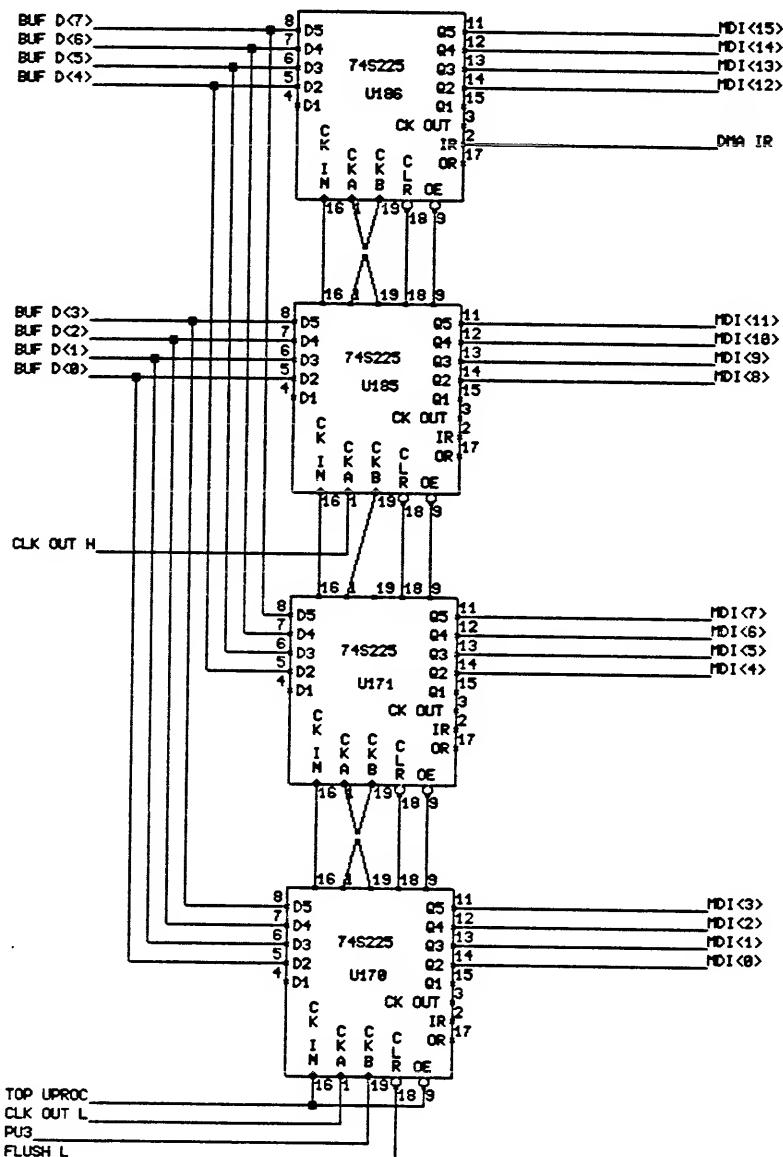
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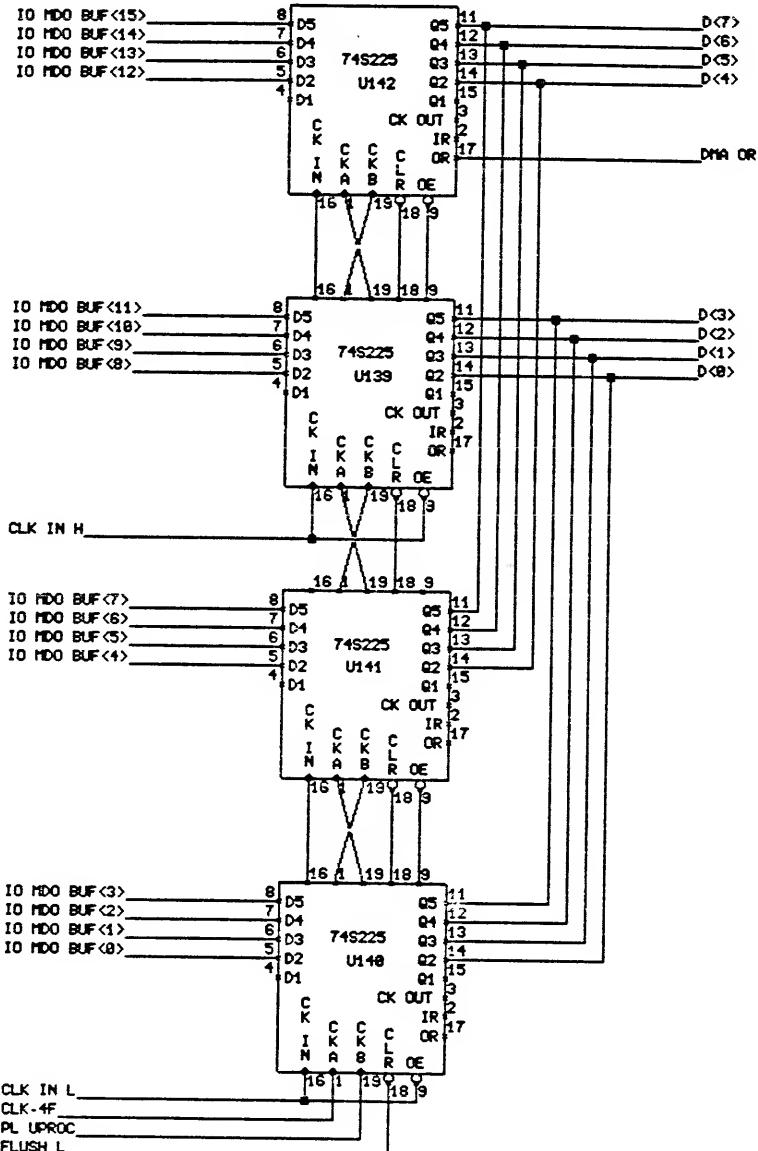
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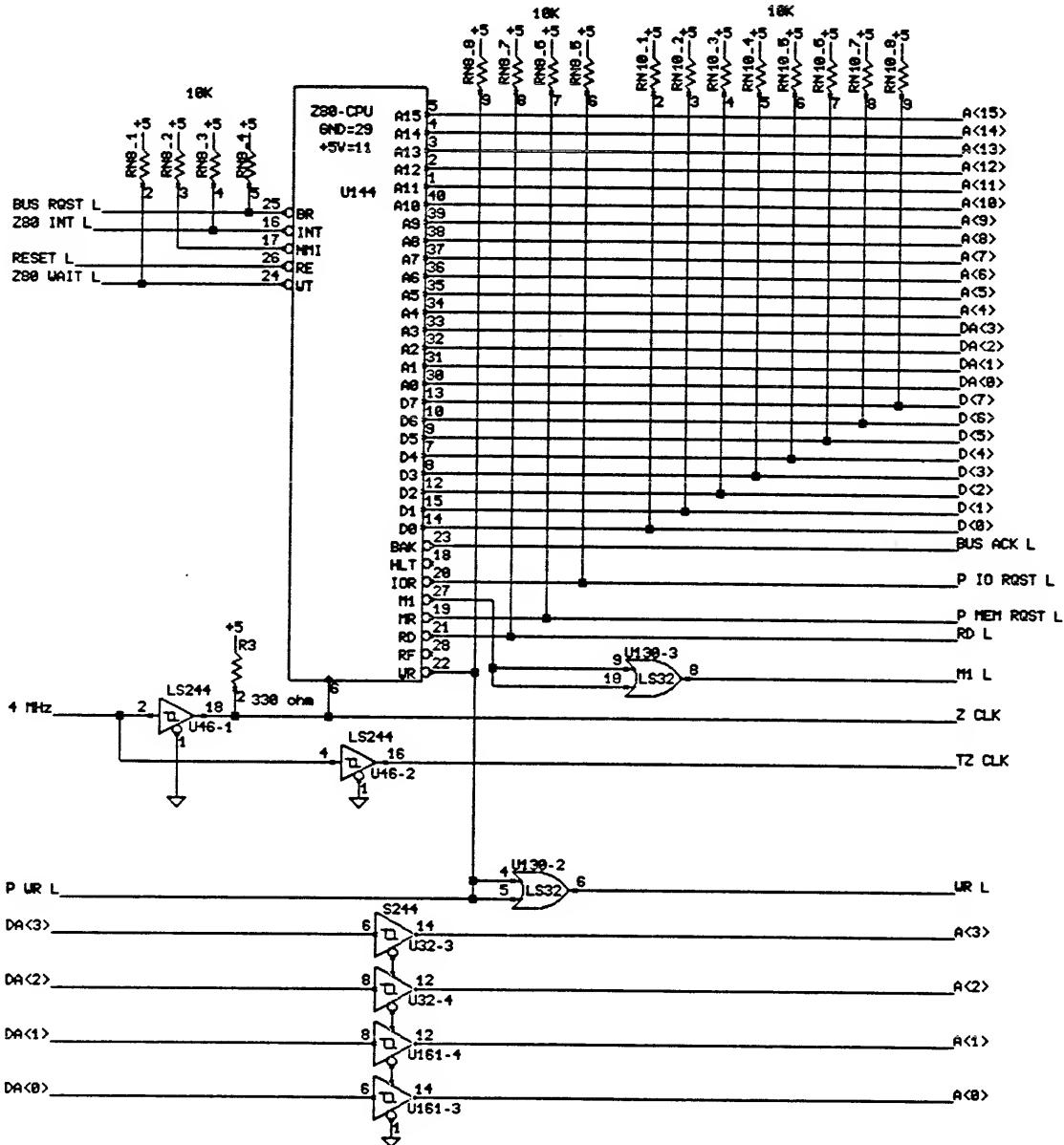


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TITLE  
Z80 MEMORY BUS INPUT

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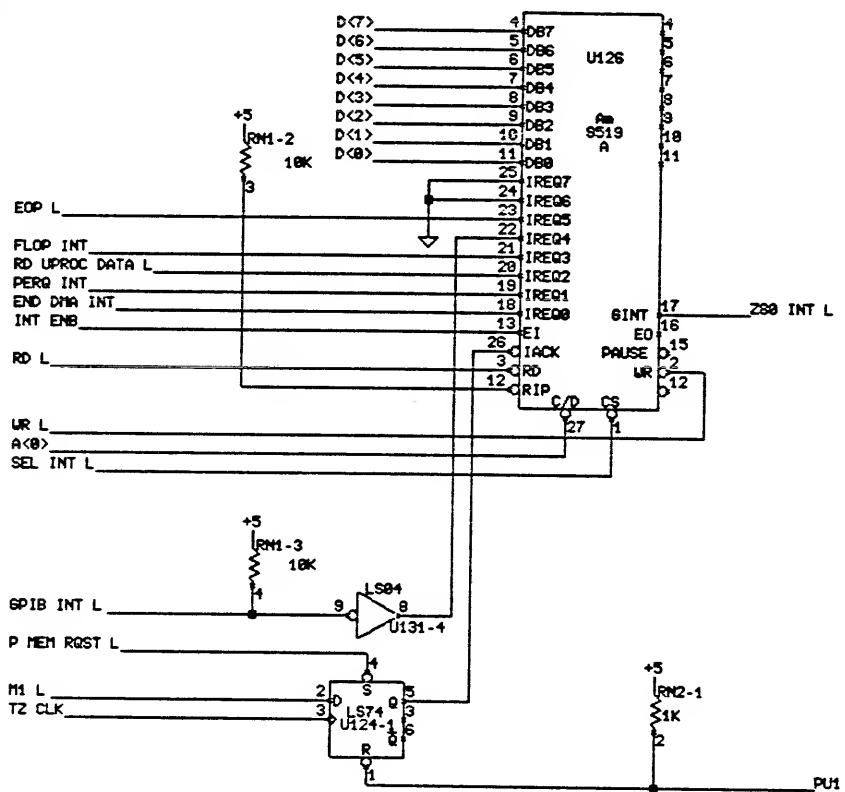


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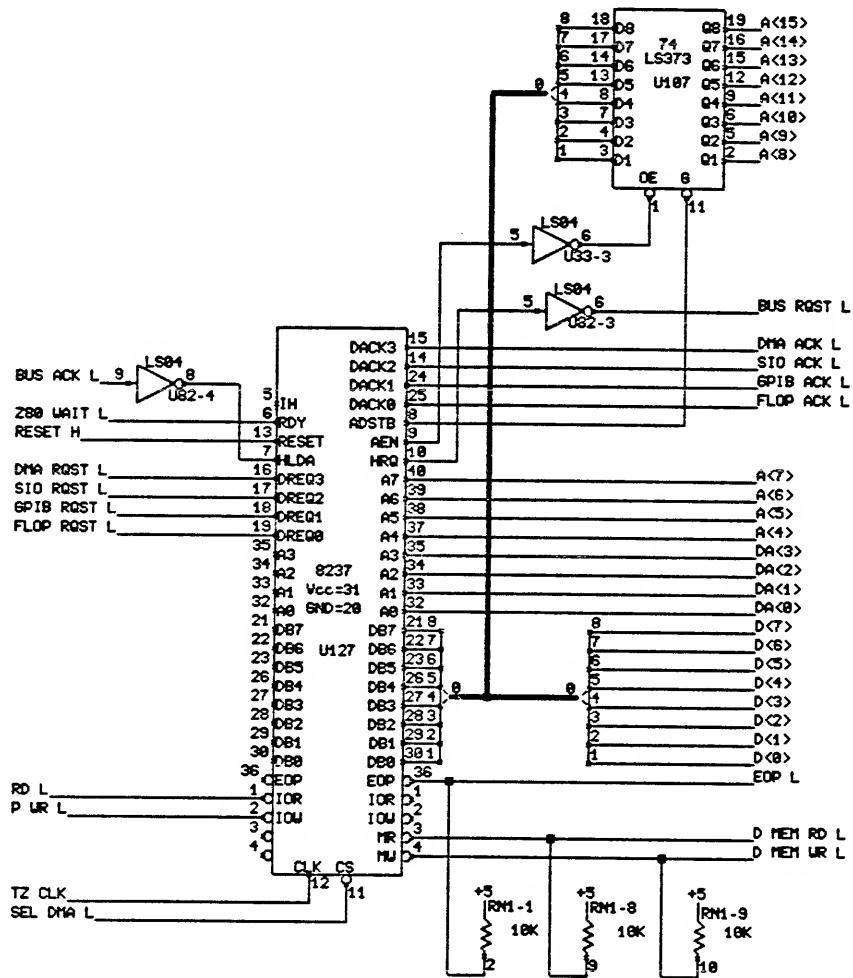
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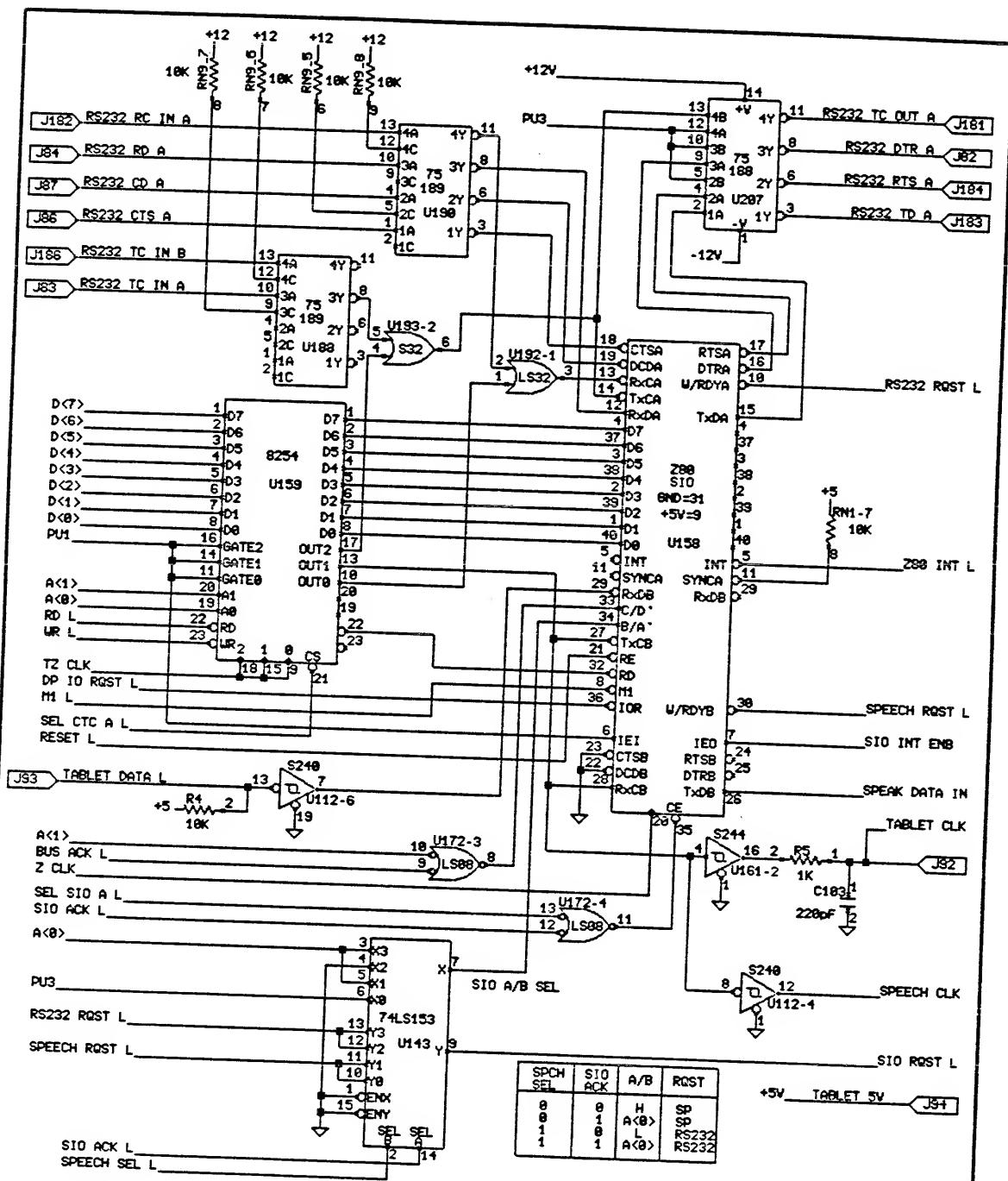
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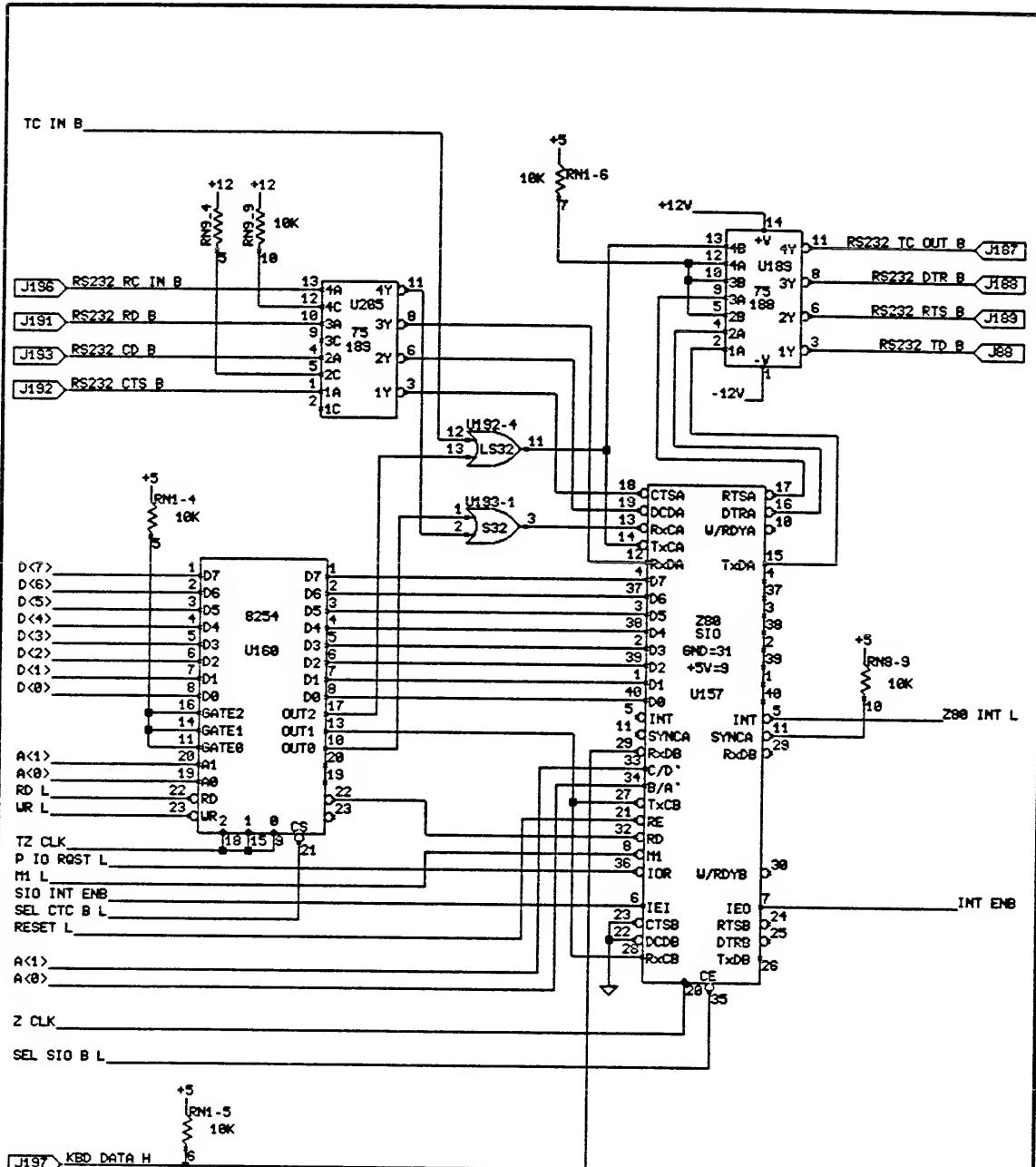
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Z80 SERIAL IO

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e15.dp

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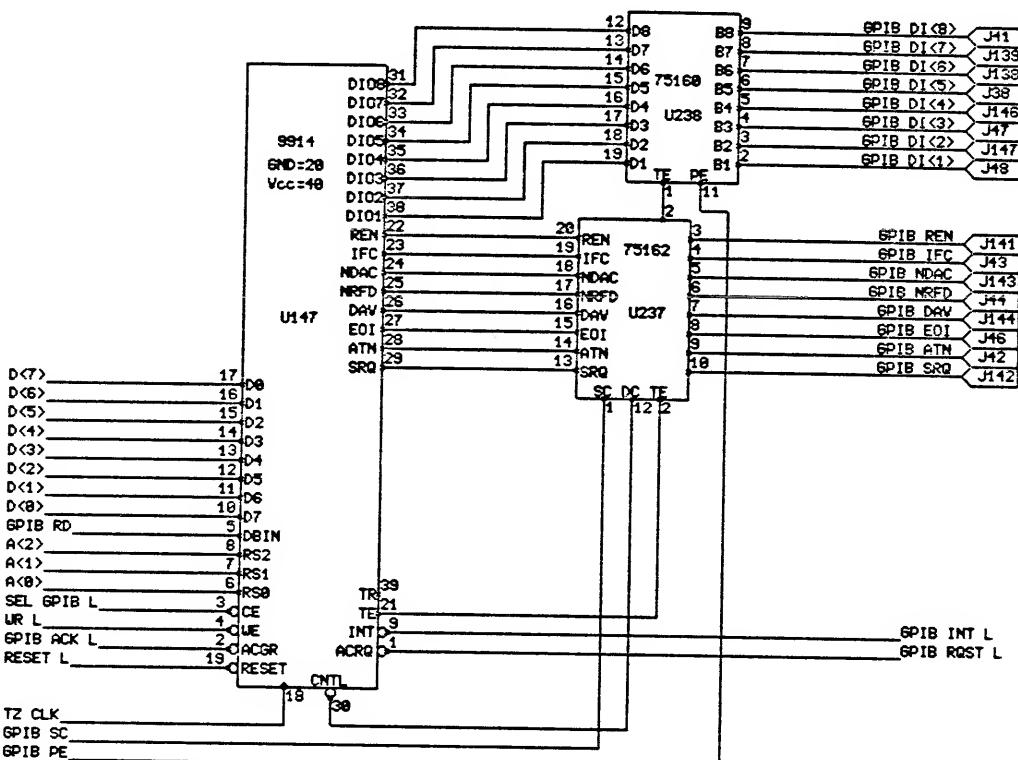
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Z80 SERIAL IO

e16.dp

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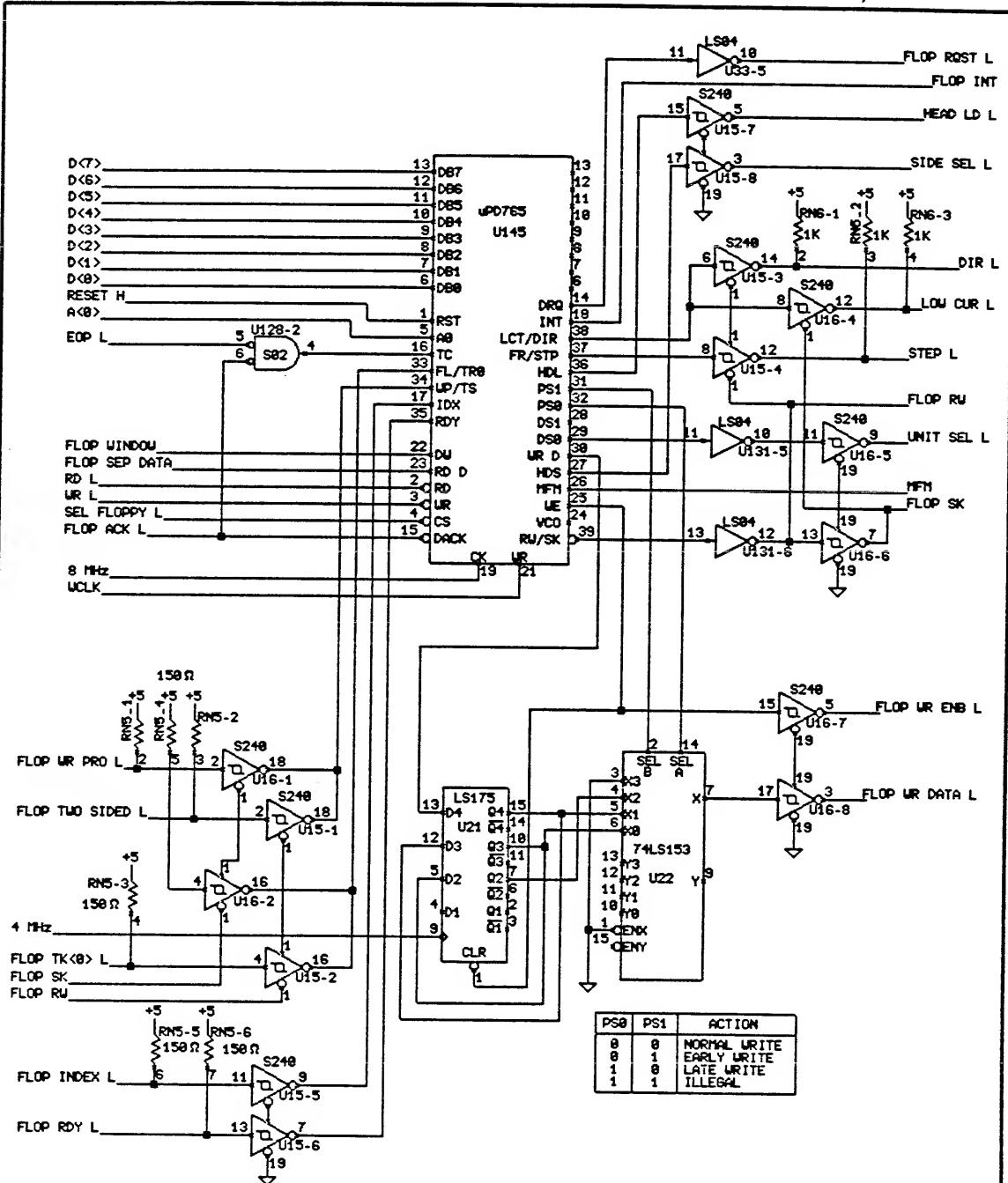
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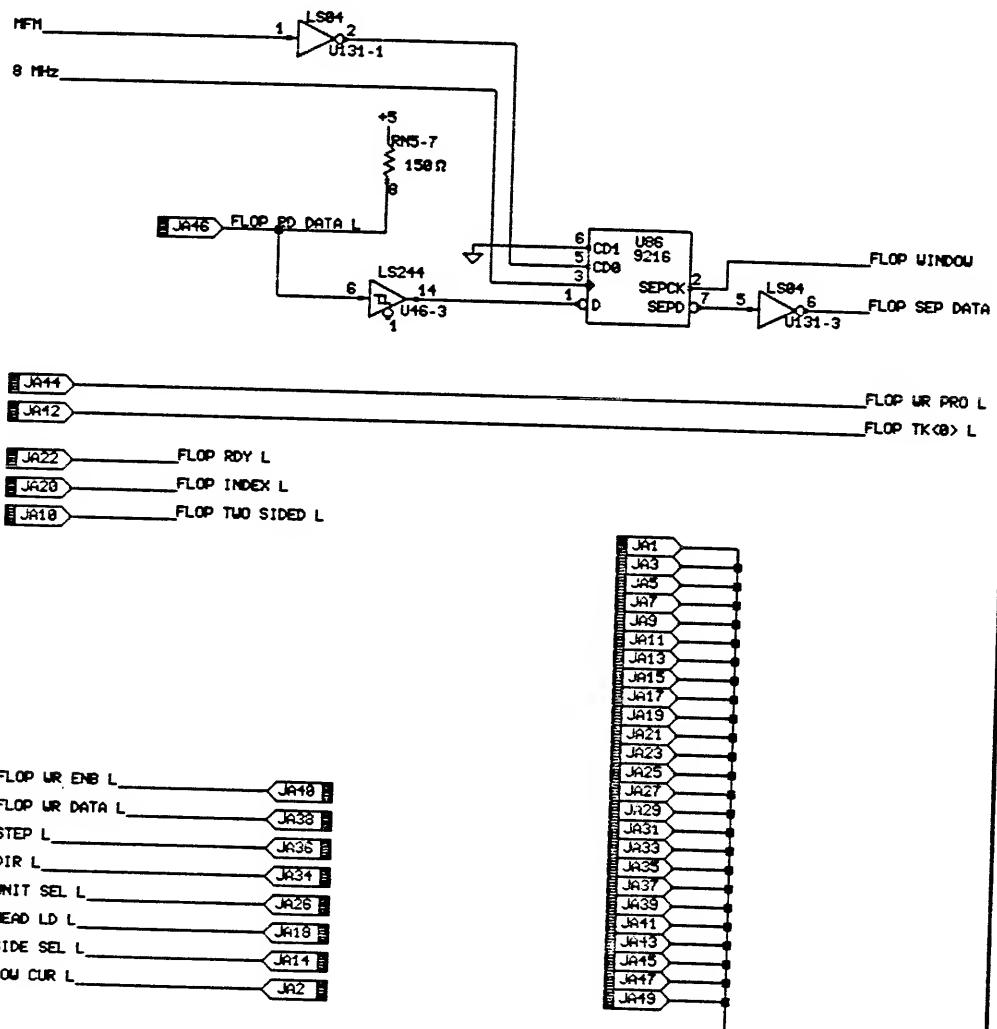


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TITLE Z80 FLOPPY

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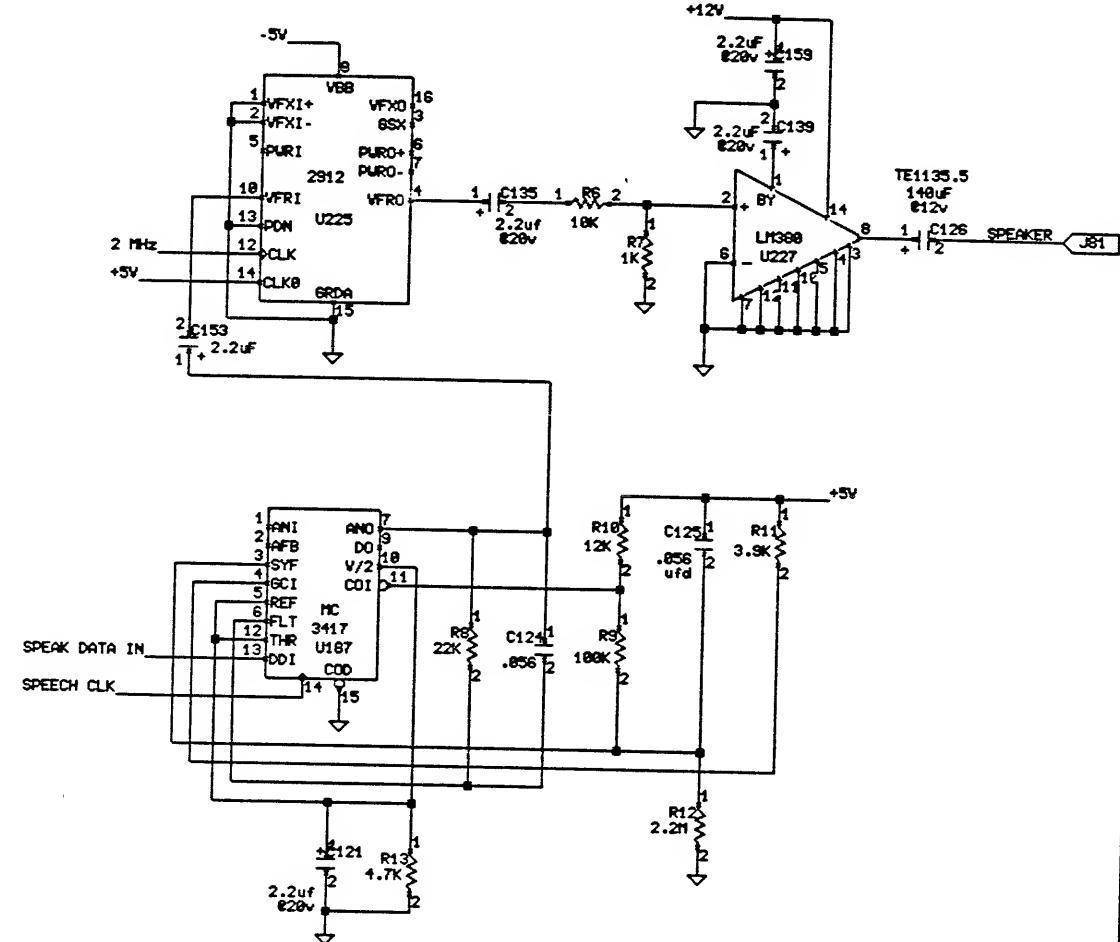
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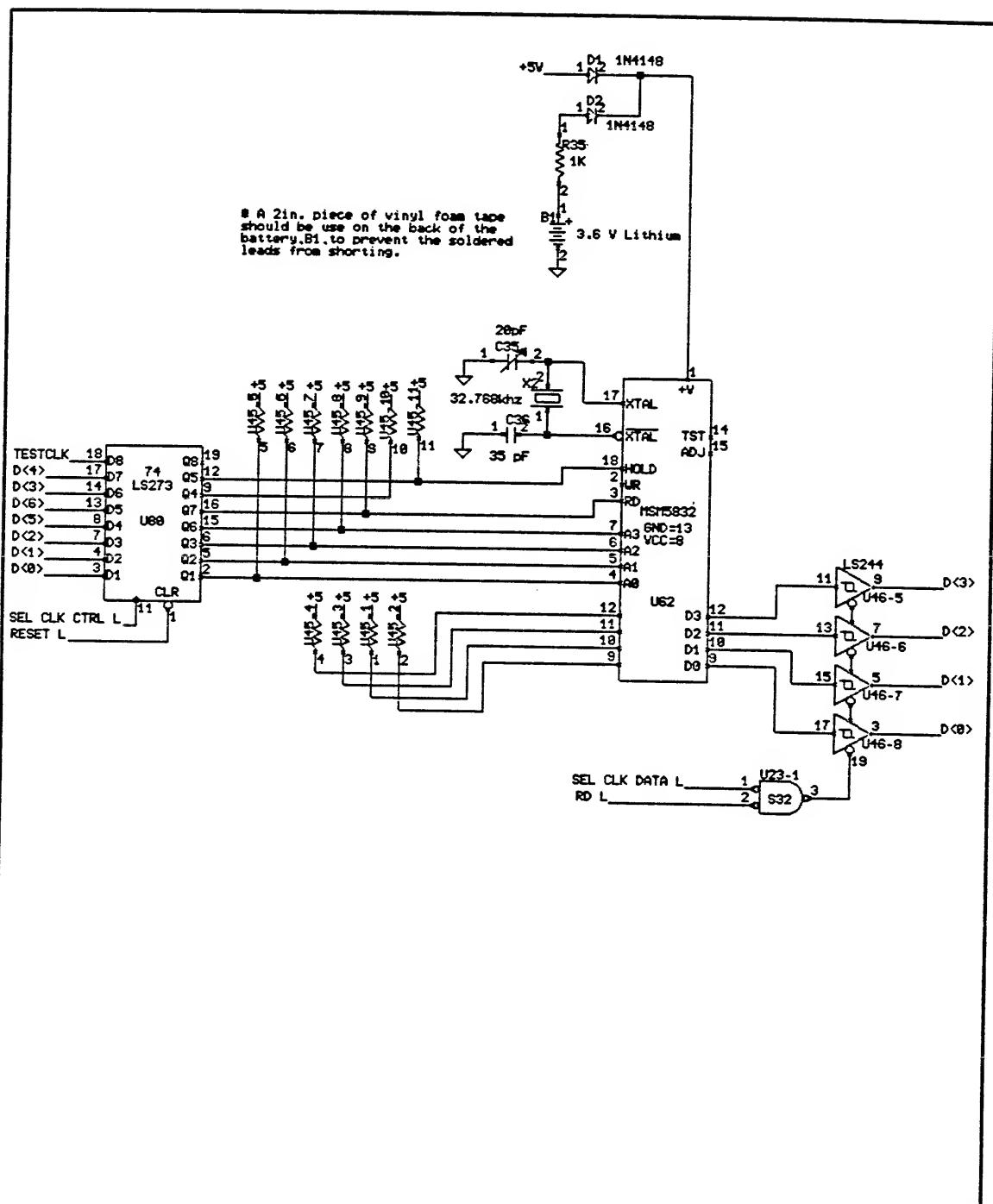


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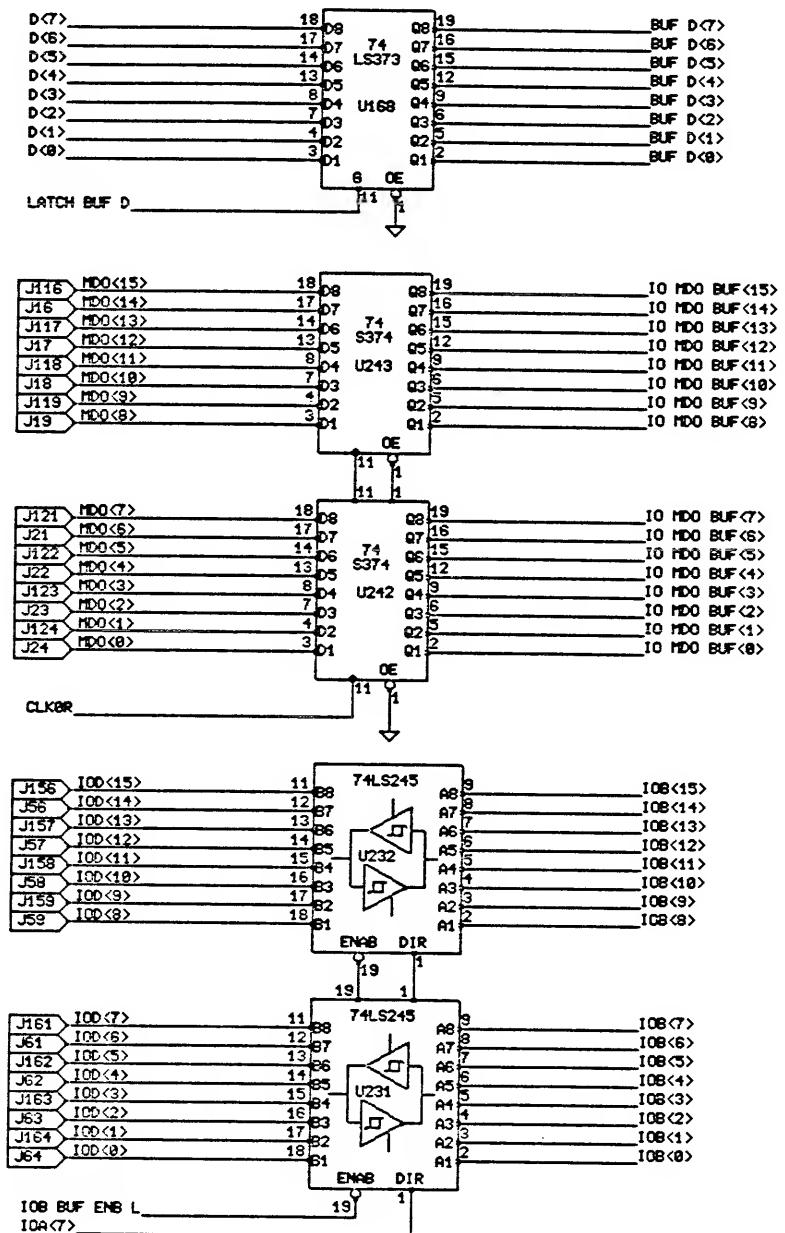
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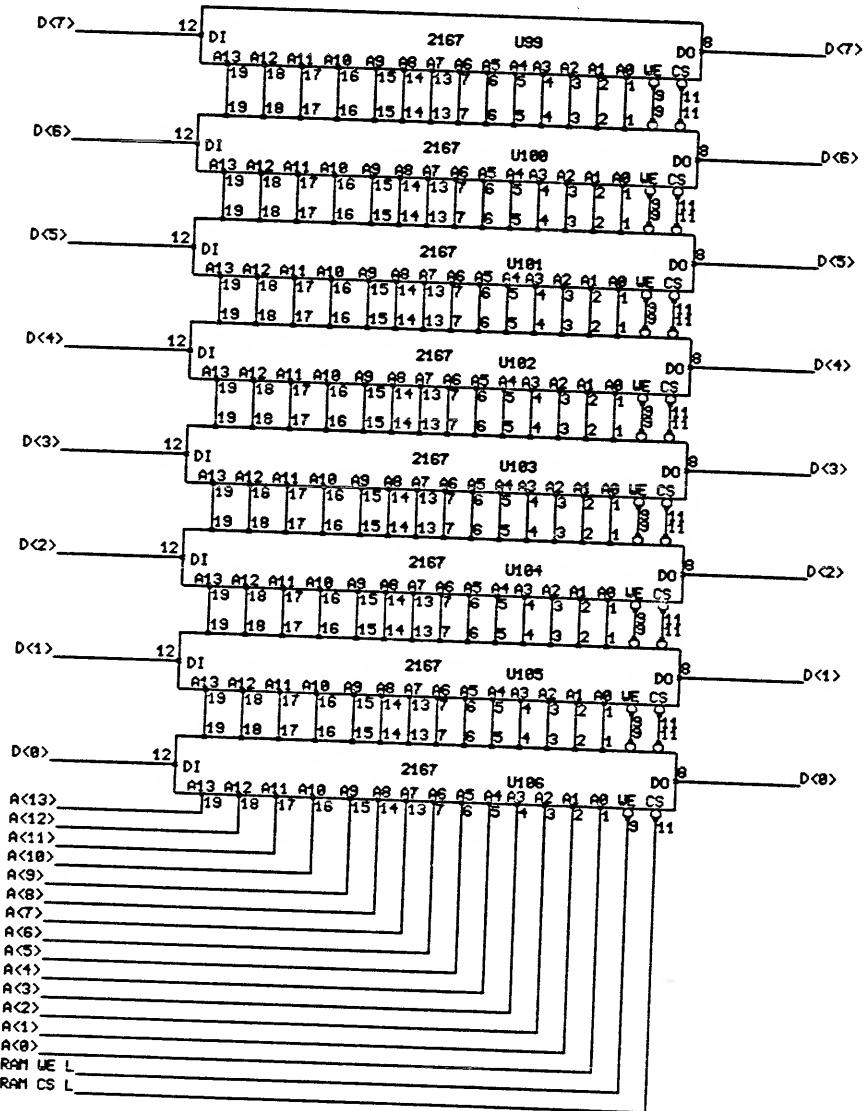
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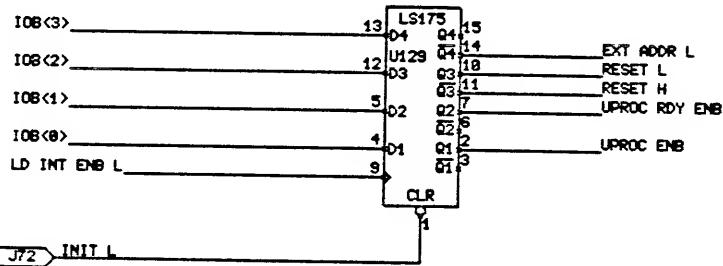
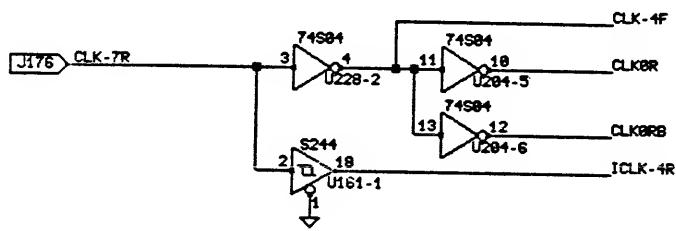
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Z80 RAM

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123

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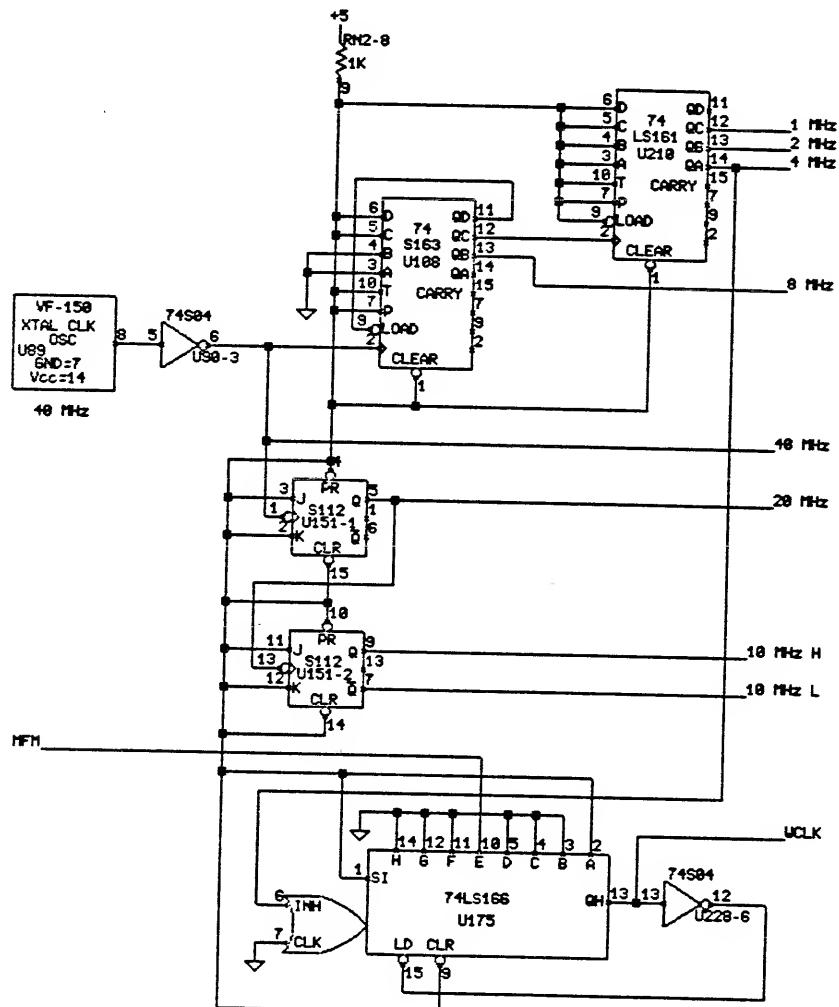


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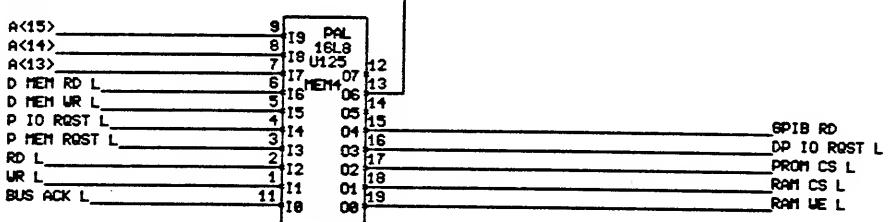
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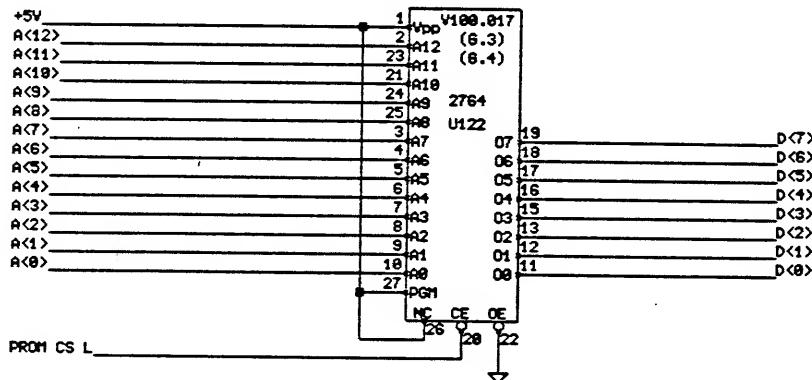
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END DMA INT

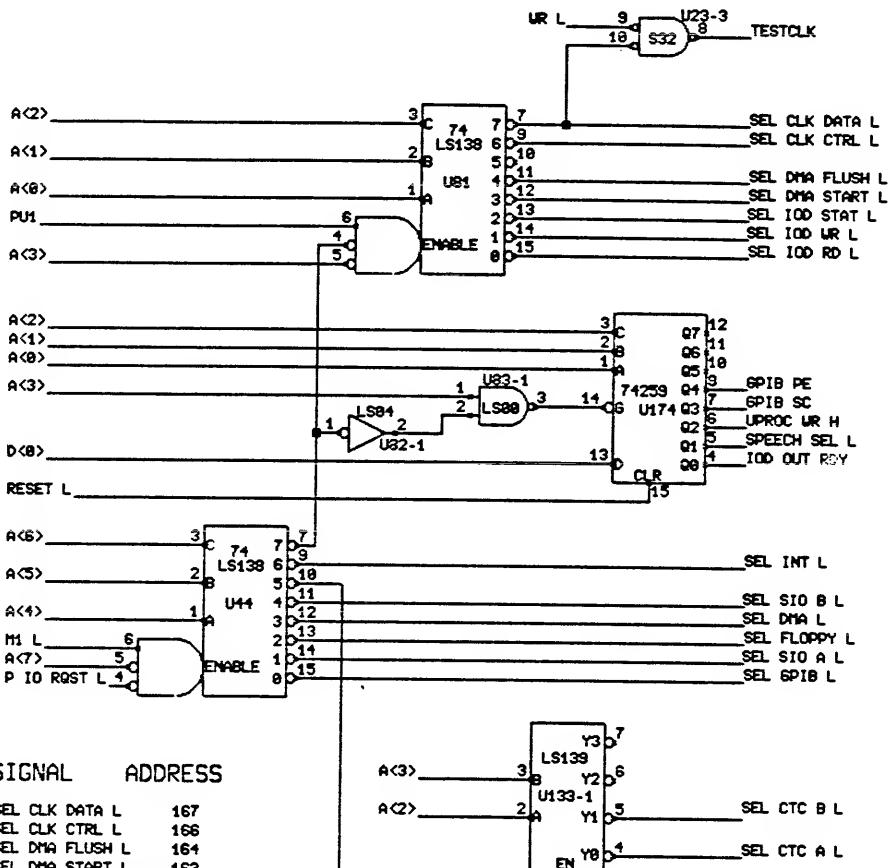


Z80 BOOT PROM

(FOR 6.3 & 6.4 SOFTWARE, USE PROM V100.817)



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	UPDATED	APR/83/84	STECK	PROJ :	ETHERNET IO BOARD W/ETHERNET	Version B	PAGE 26 OF 56	



**SIGNAL ADDRESS**

SEL CLK DATA L	167
SEL CLK CTRL L	166
SEL DMA FLUSH L	164
SEL DMA START L	163
SEL IOD STAT L	162
SEL IOD WR L	161
SEL IOD RD L	160
SPIB PE	174
SPIB SC	173
UPROC WR H	172
SPEECH SEL L	171
IOD OUT RDY	170
SEL INT L	140:157
SEL CTC A L	120:127
SEL CTC B L	130:137
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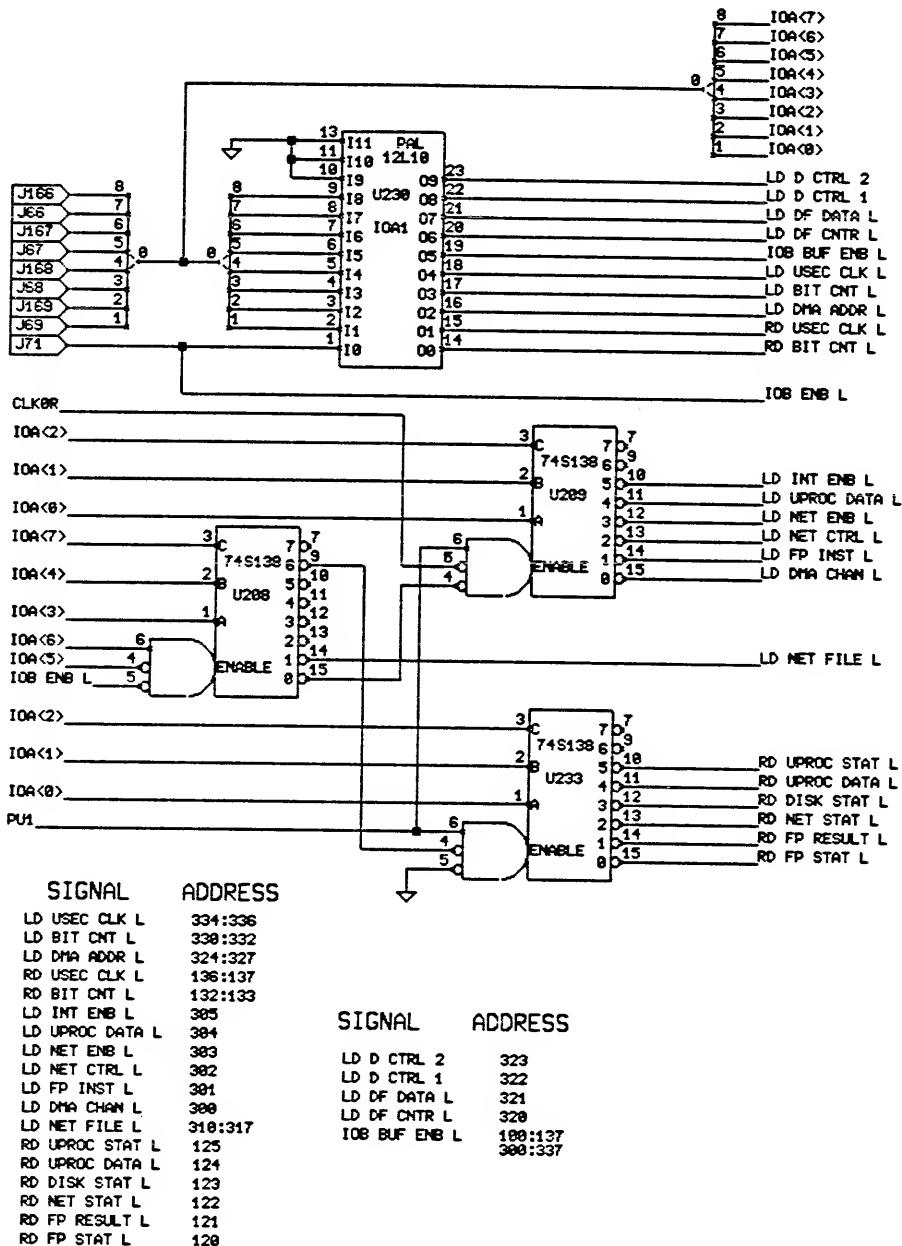
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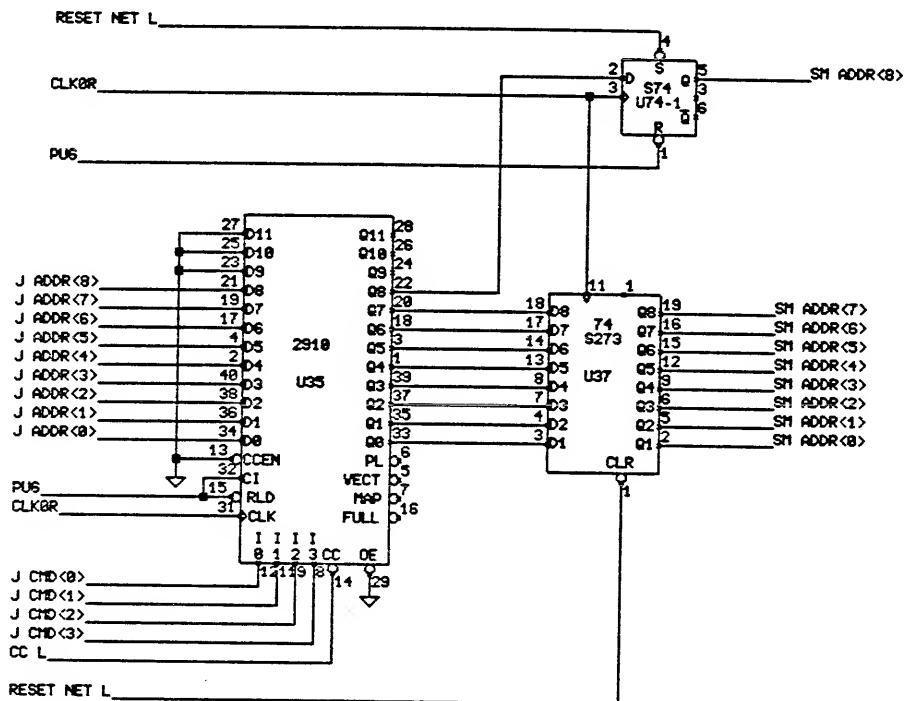
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**PERQ**



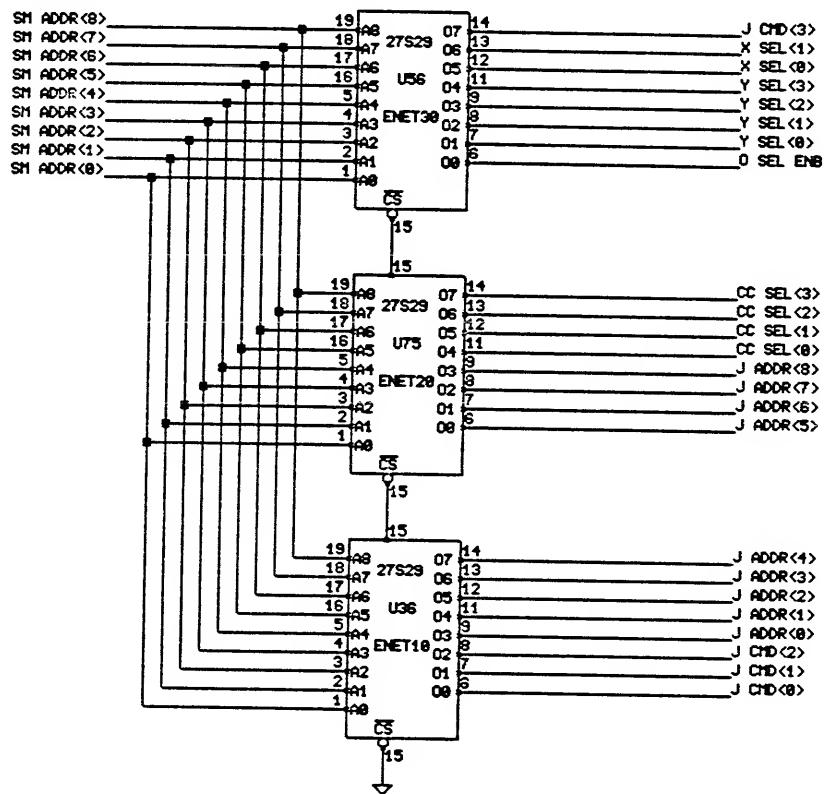
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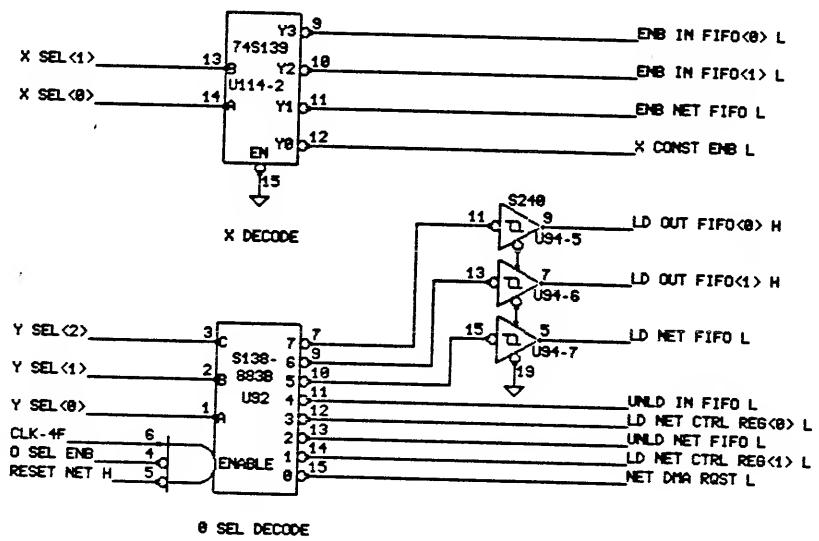
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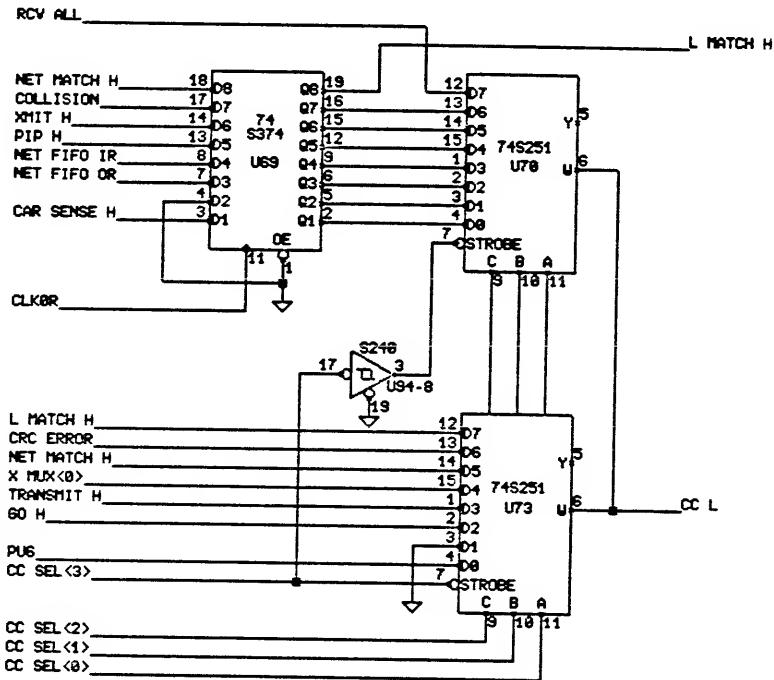
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PERQ



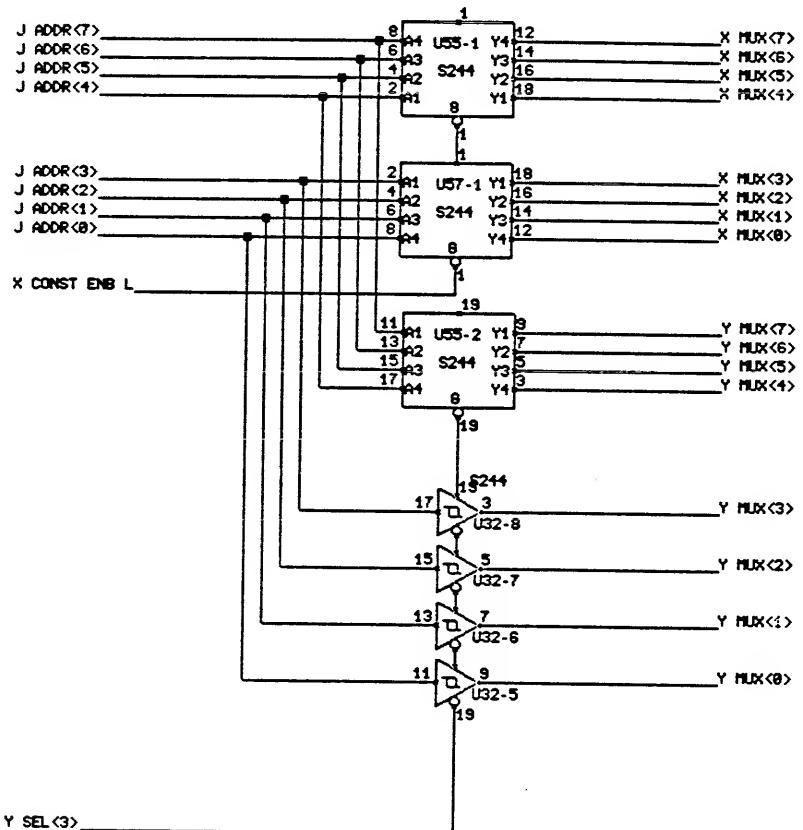
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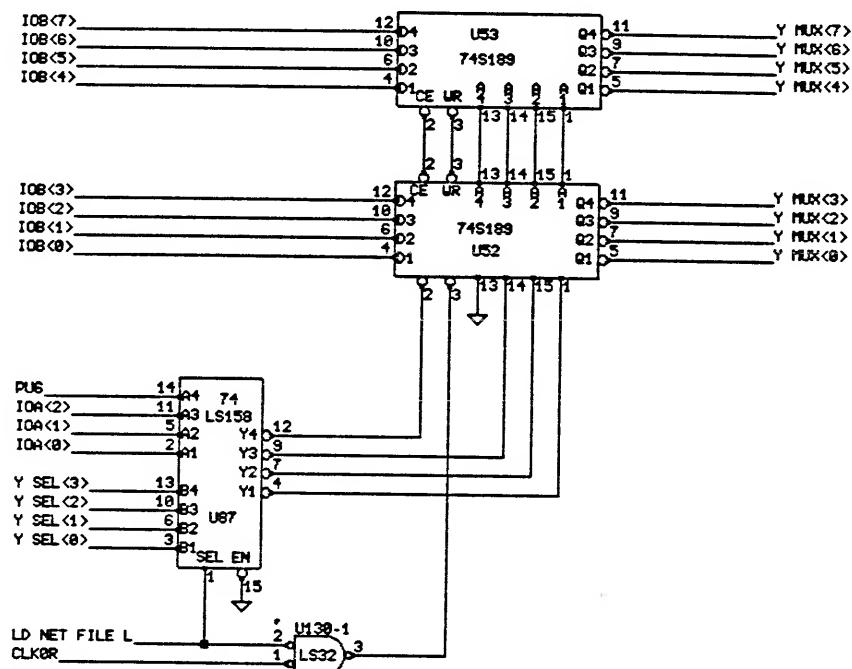
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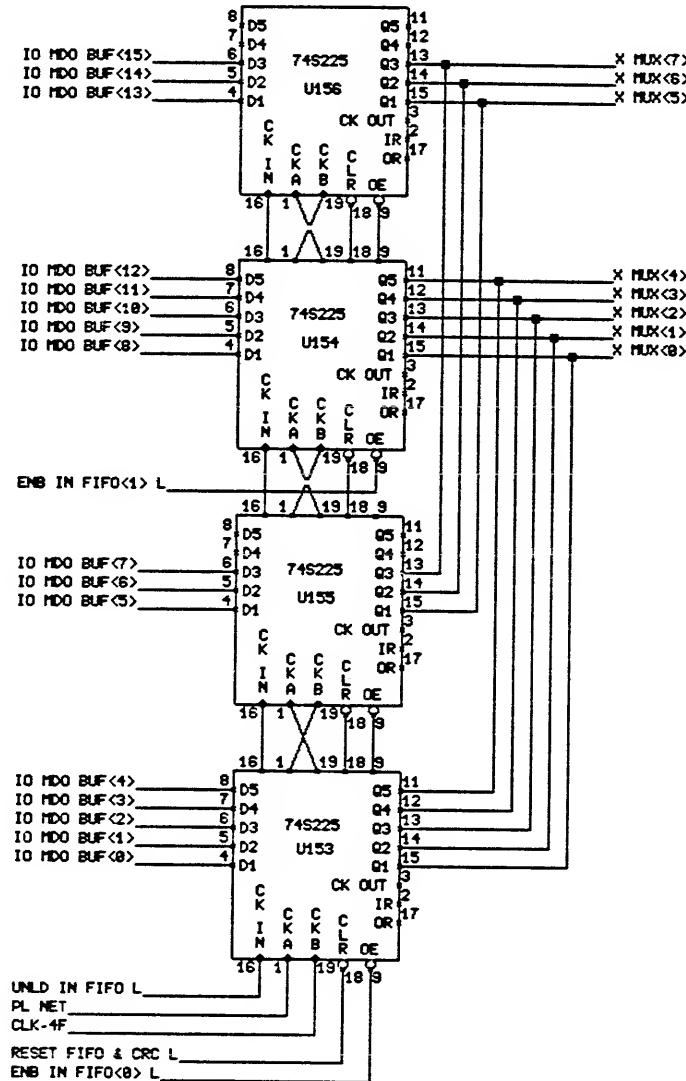
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PROJ : ETHERNET IO BOARD U/ETHERNET Version B PAGE 34 OF 56



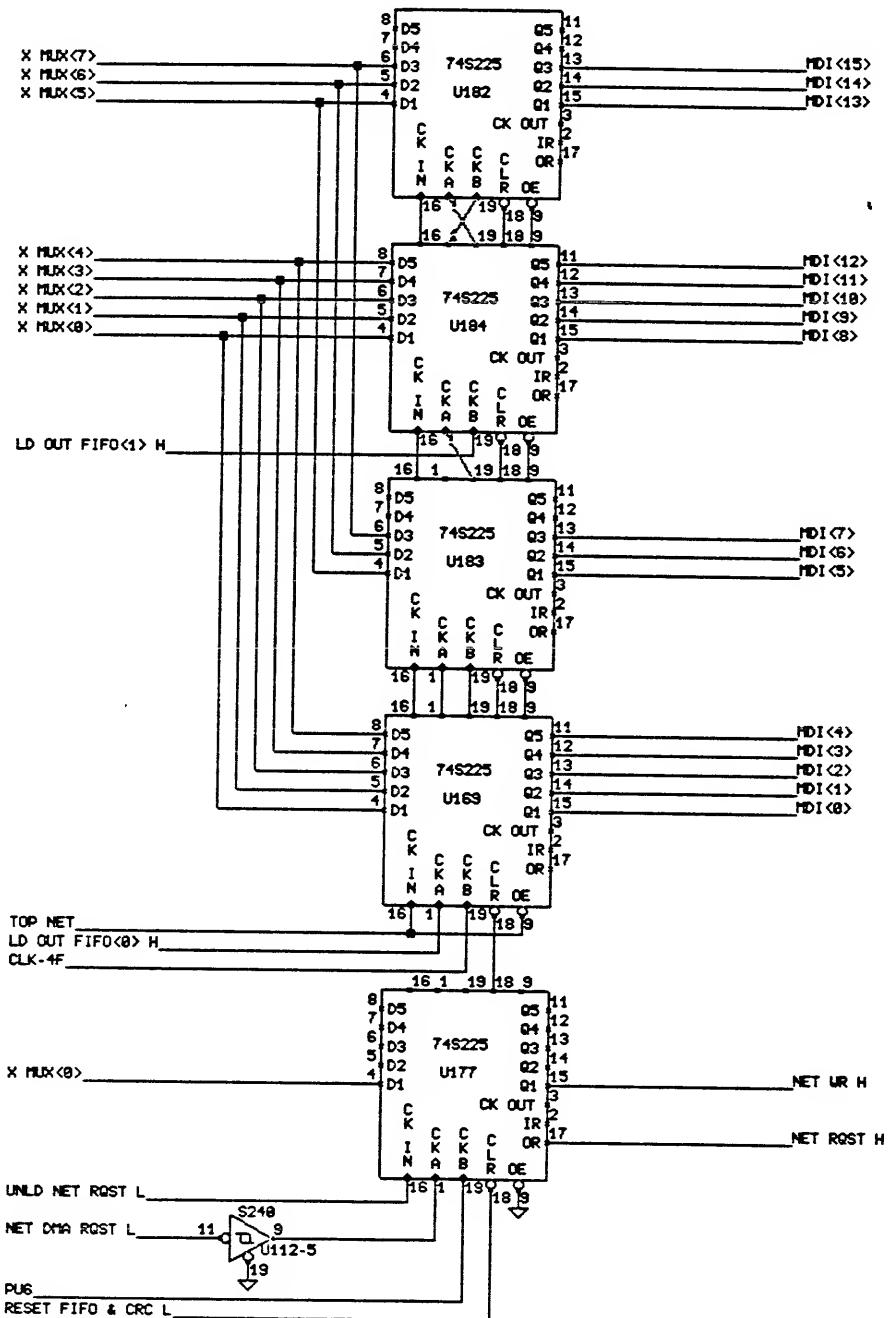
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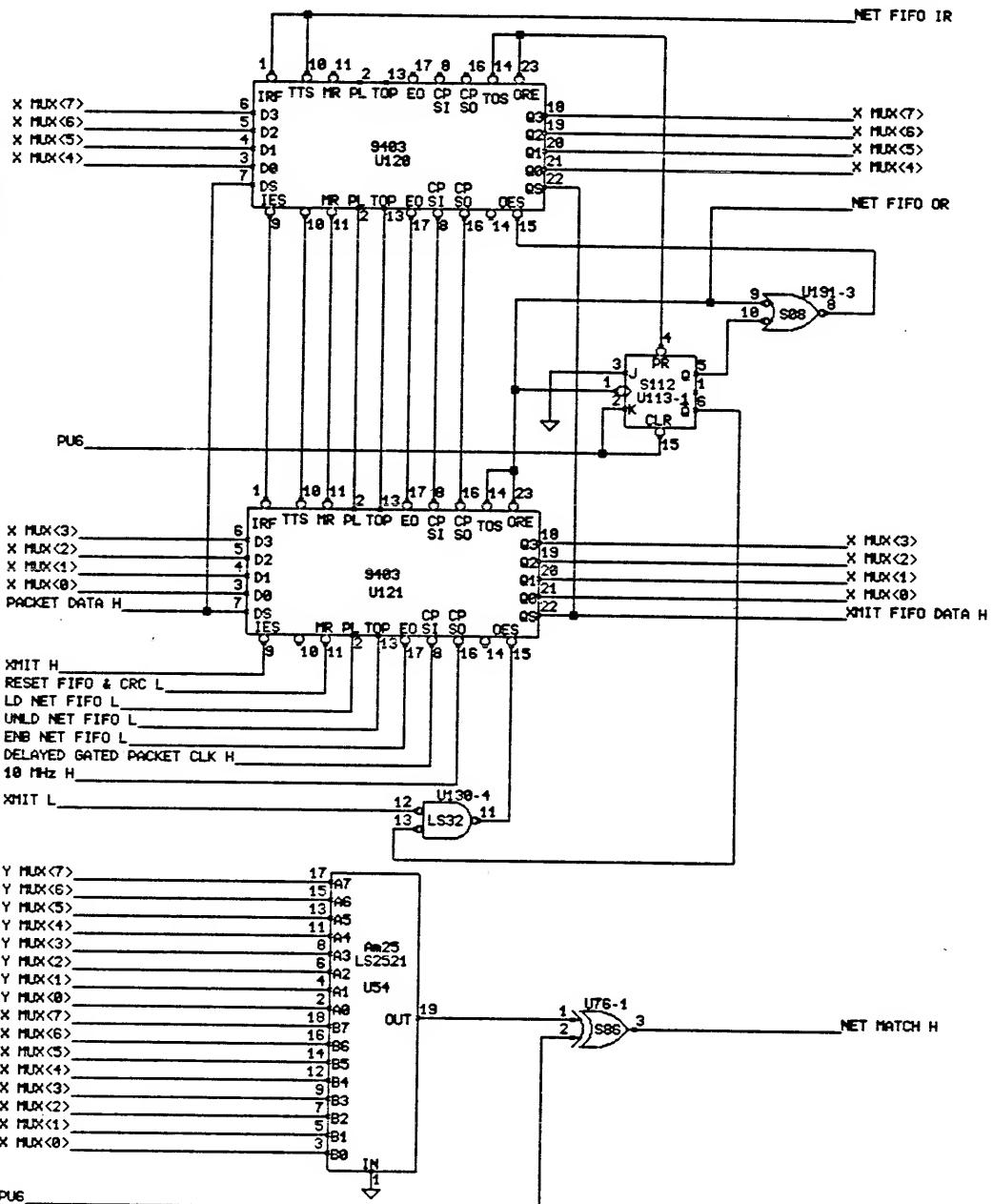
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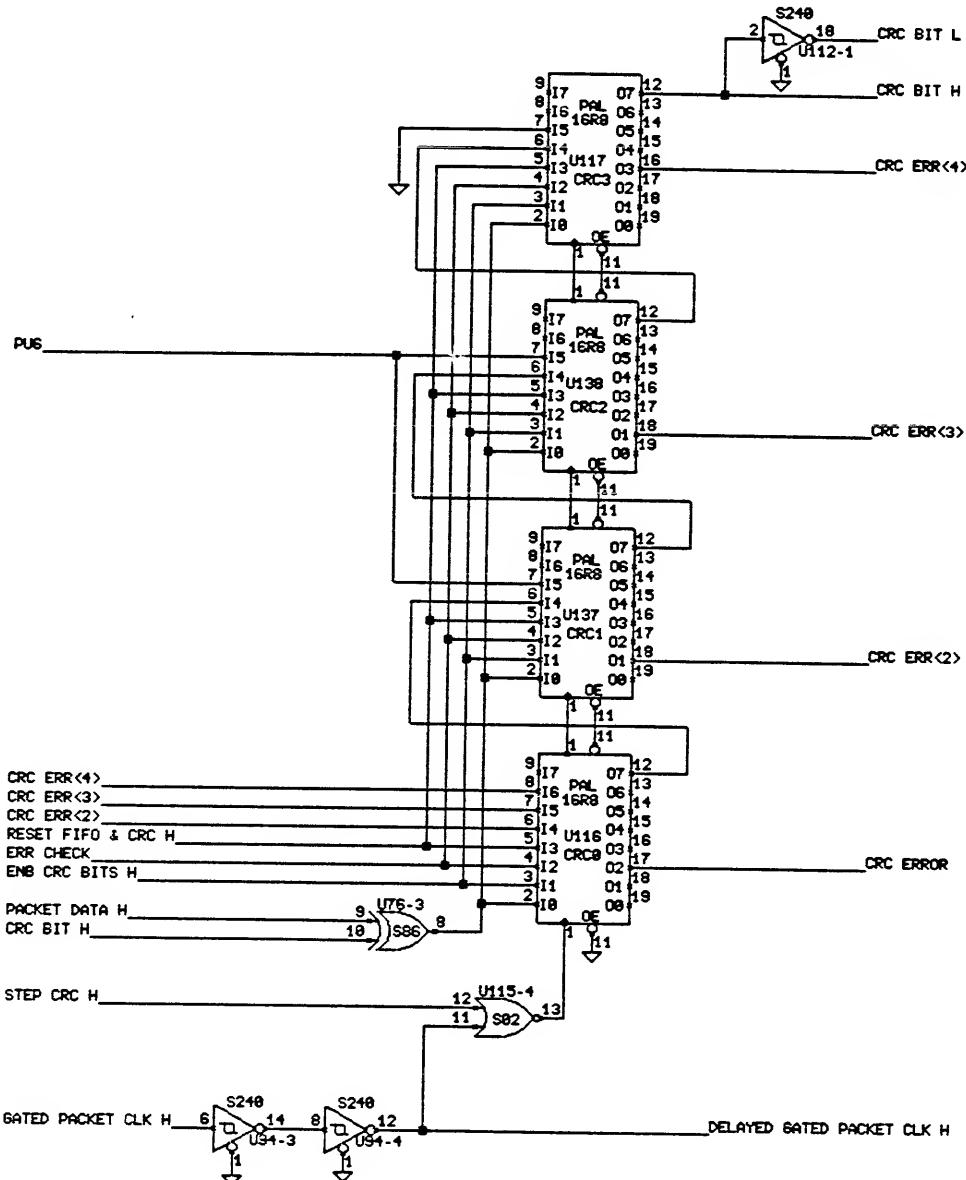
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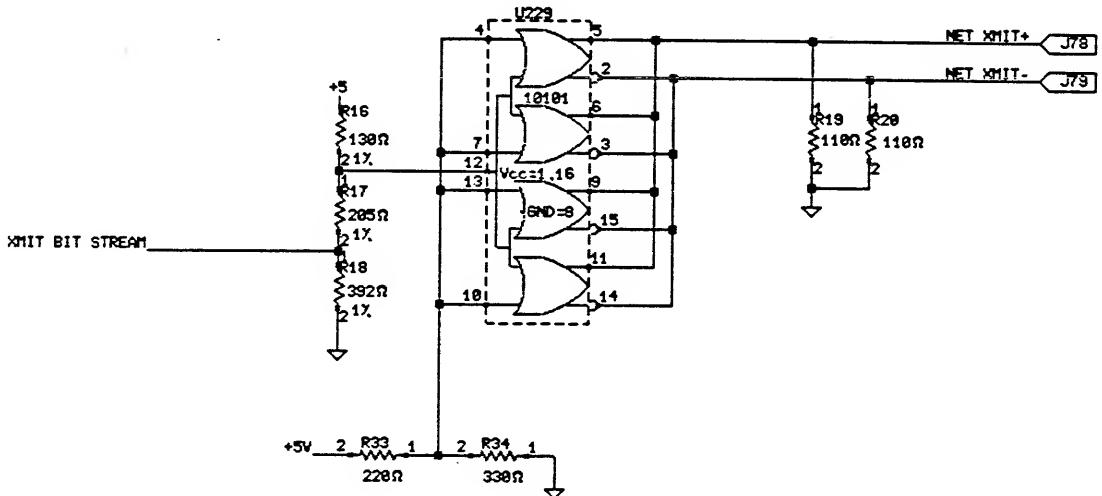
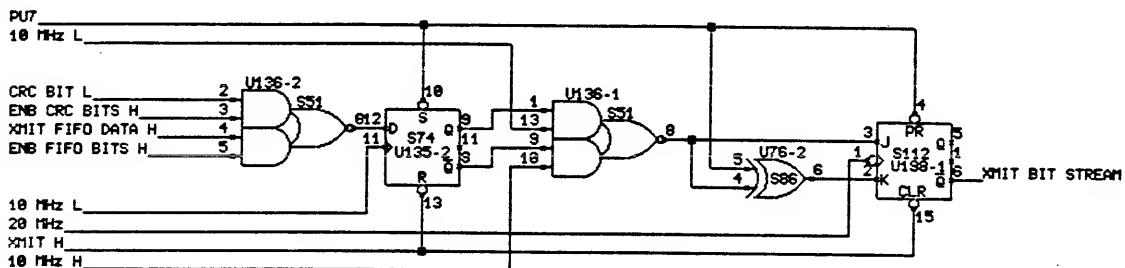
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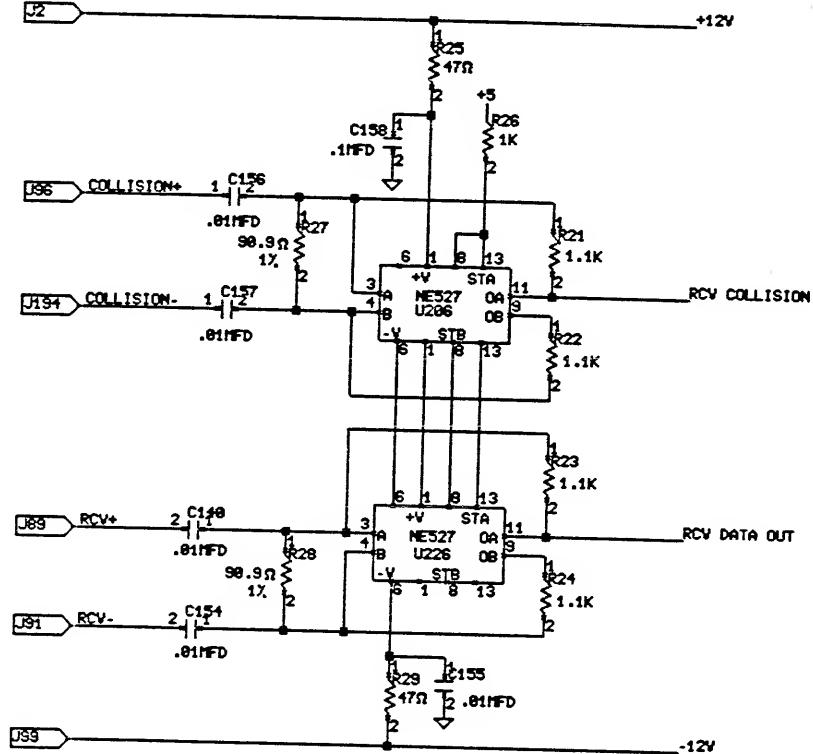
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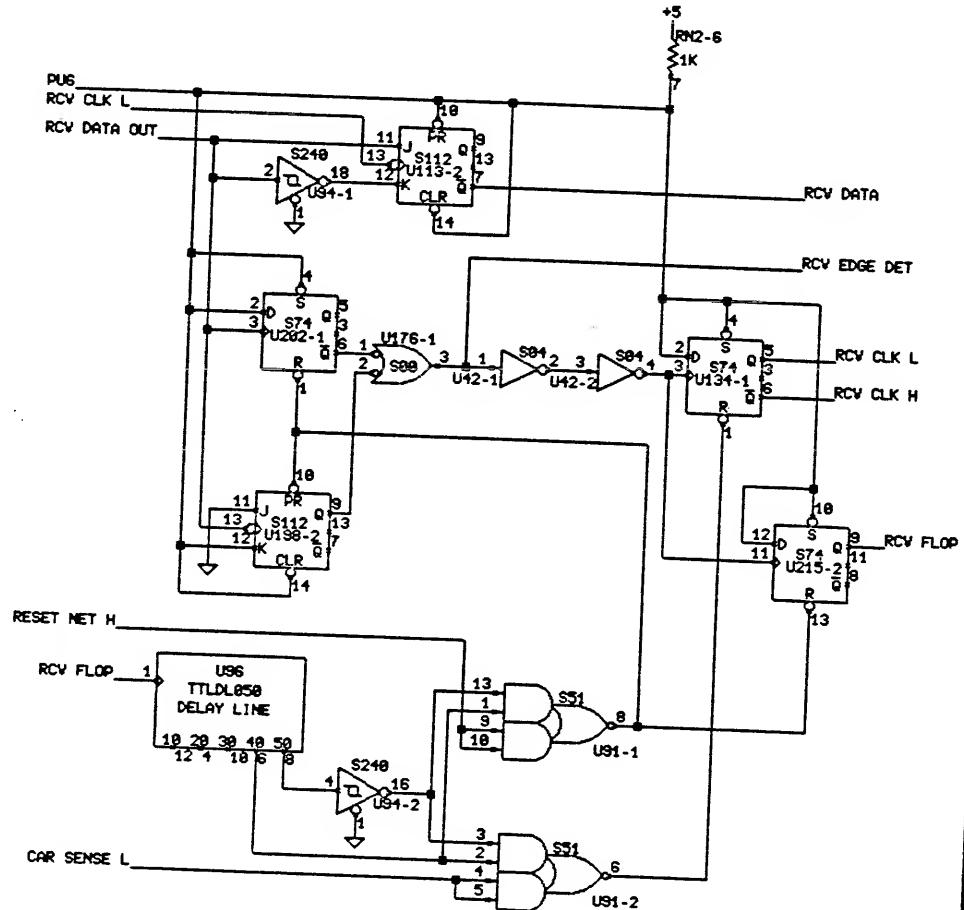
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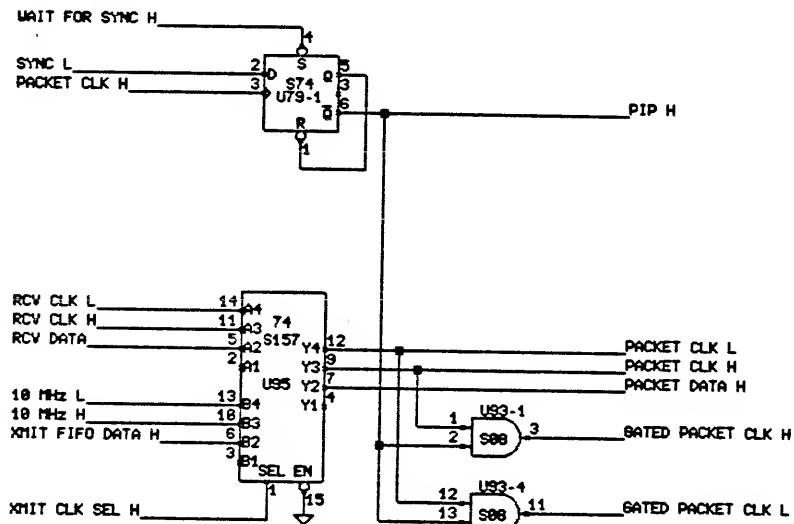
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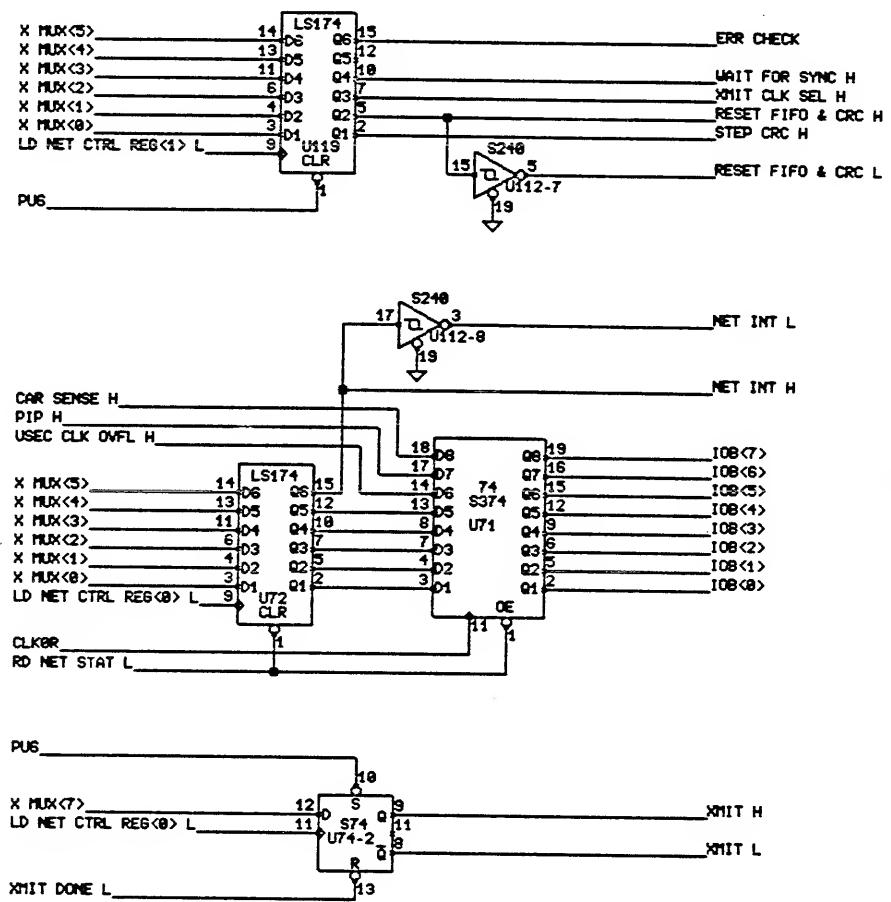
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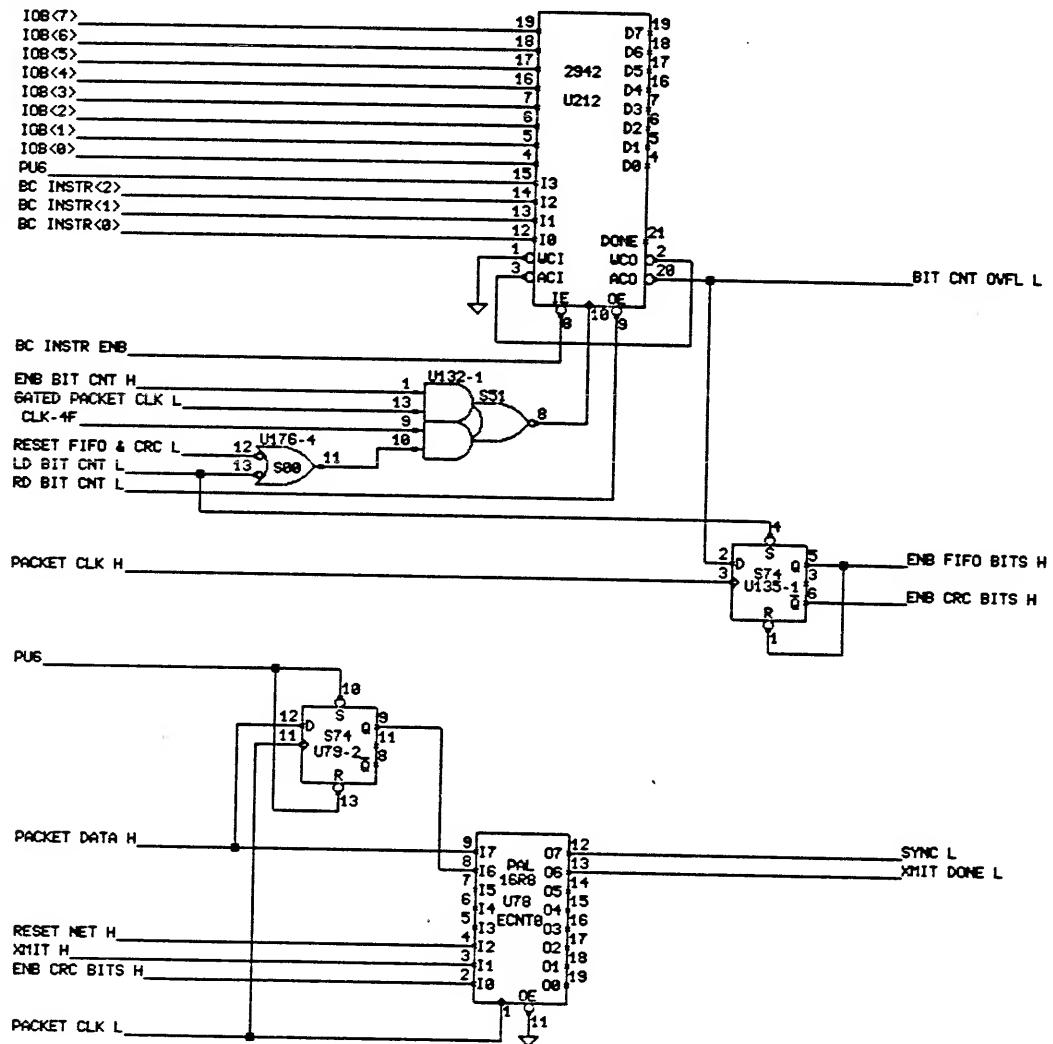
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DESIGNED	UCH		SIZE	CODE	IDENTIFICATION	VAR	REV
DRAWN	13-Sep-82	S8okse	A	1 1	8 8 6 -	8 2	AN
UPDATED	APR/83/84	STECK					
			PROJ :	ETHERNET ID BOARD U/ETHERNET	Version B	PAGE 13 OF 56	



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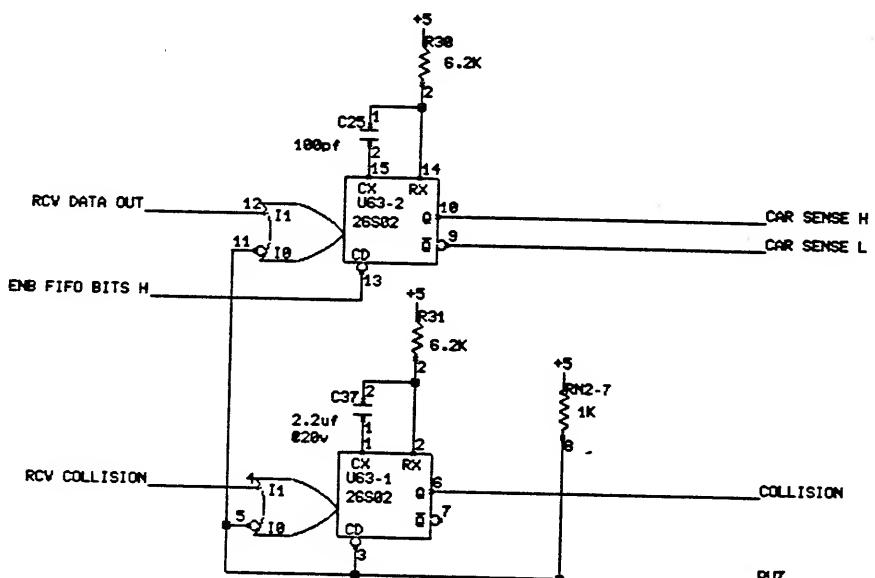
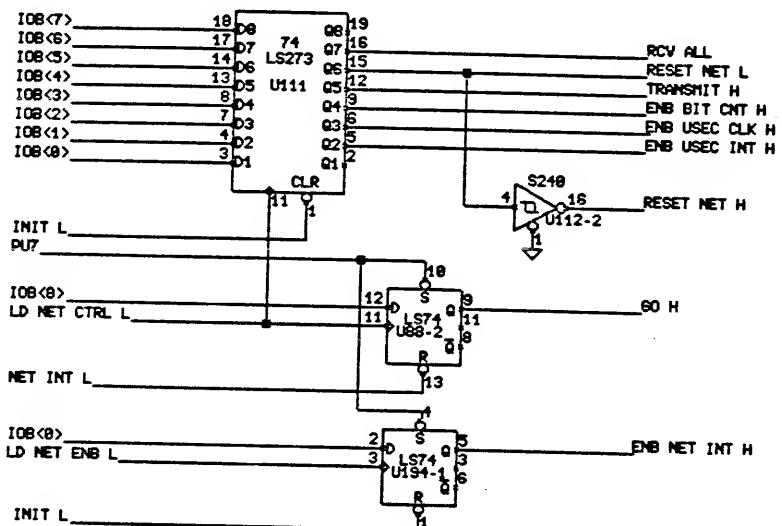
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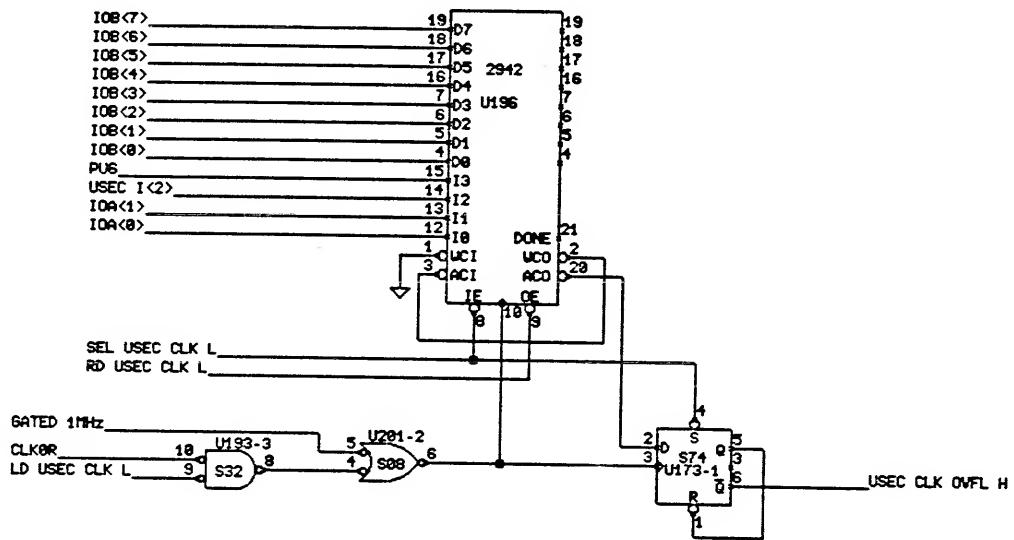


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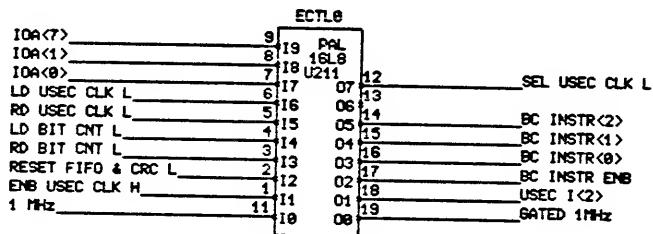
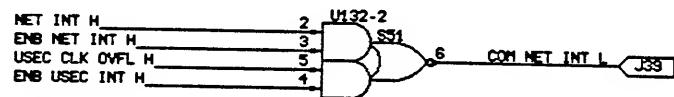
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				PAGE 46 OF 56	

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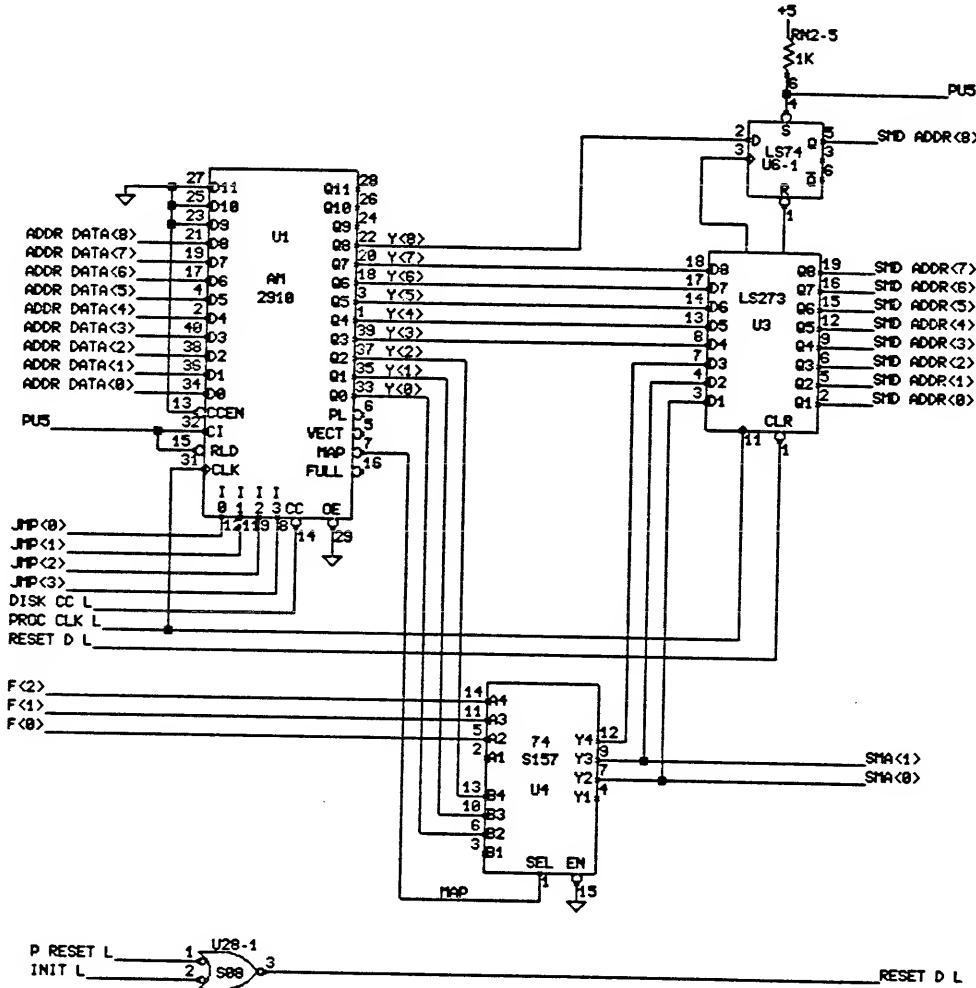
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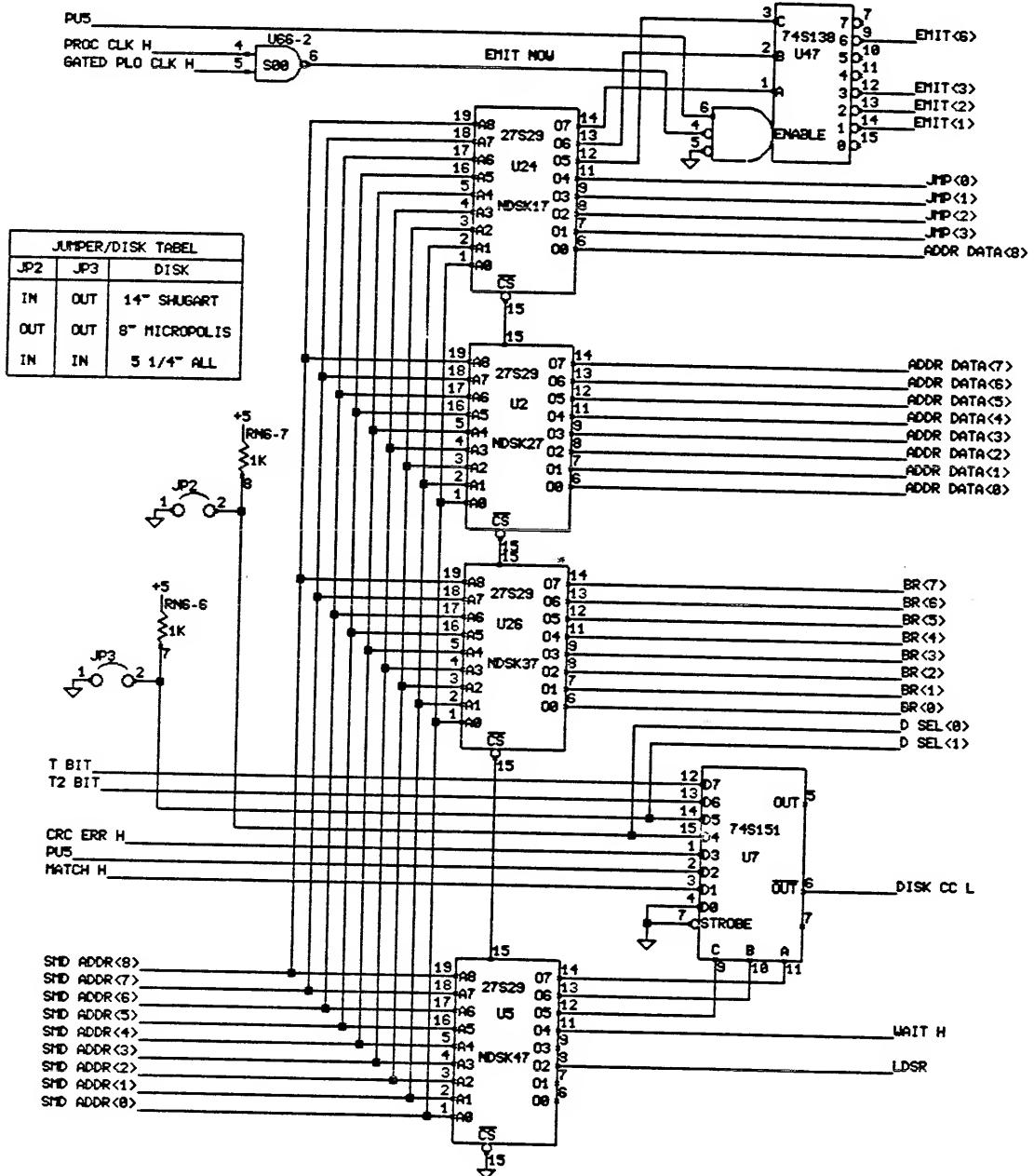
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DISK STATE MACHINE

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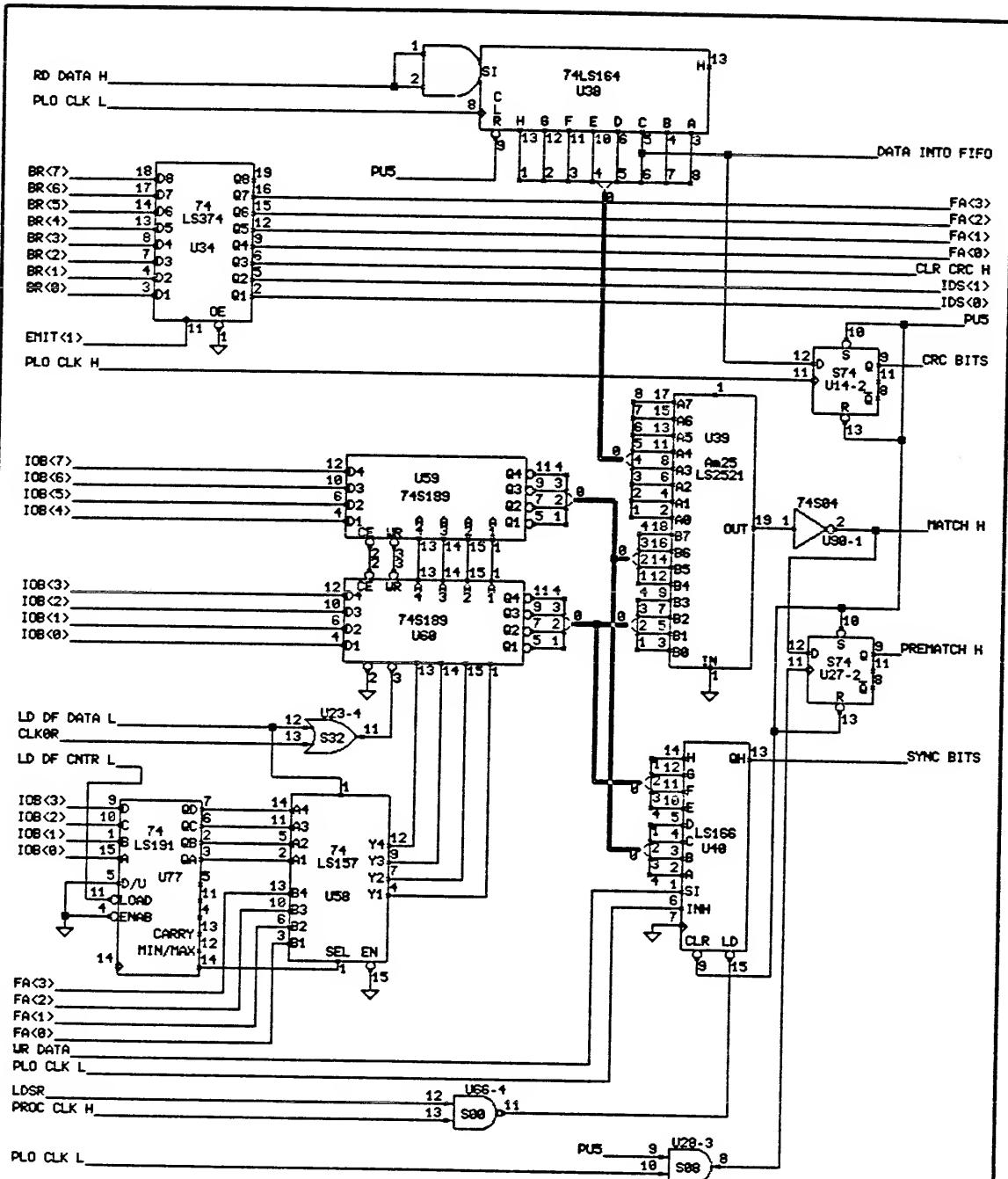
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DISK STATE MACHINE

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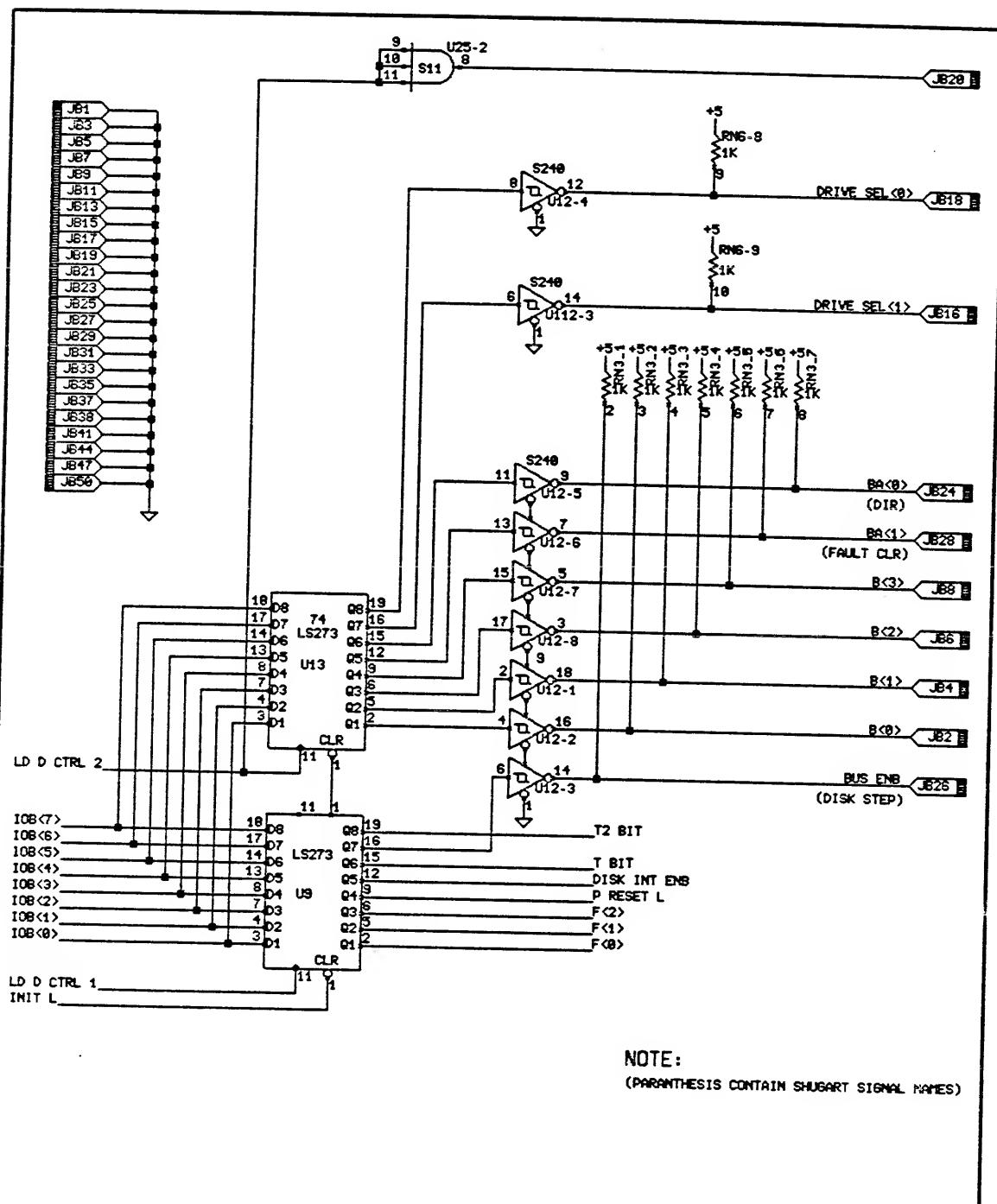
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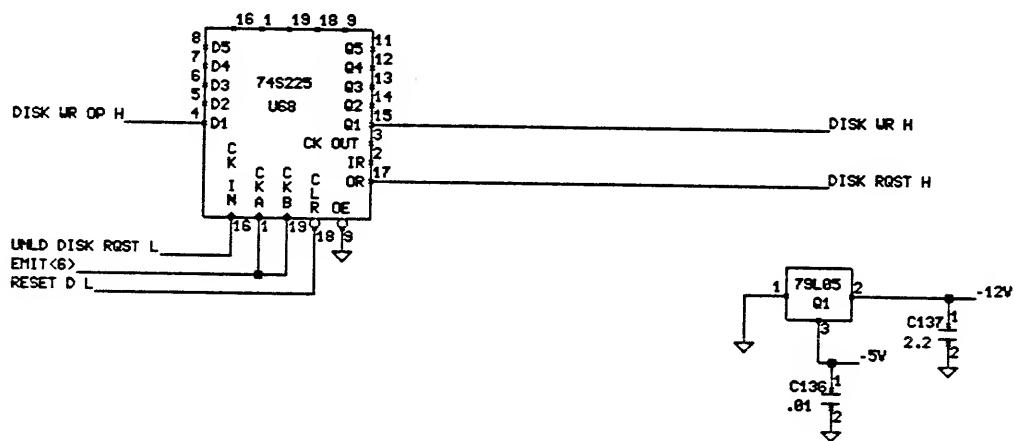
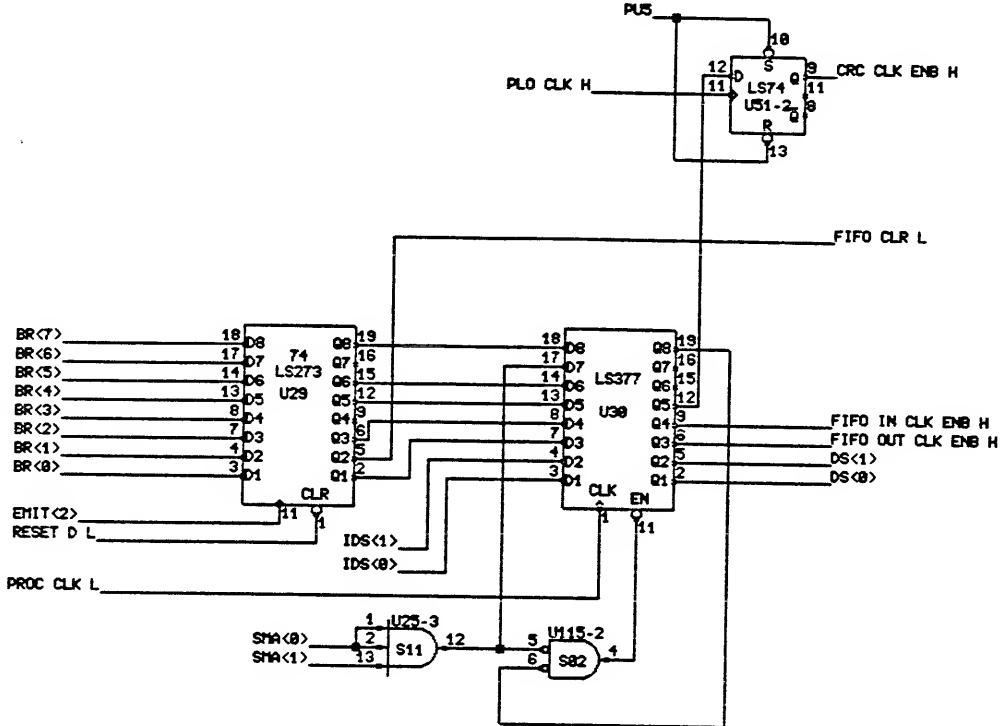
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PERQ



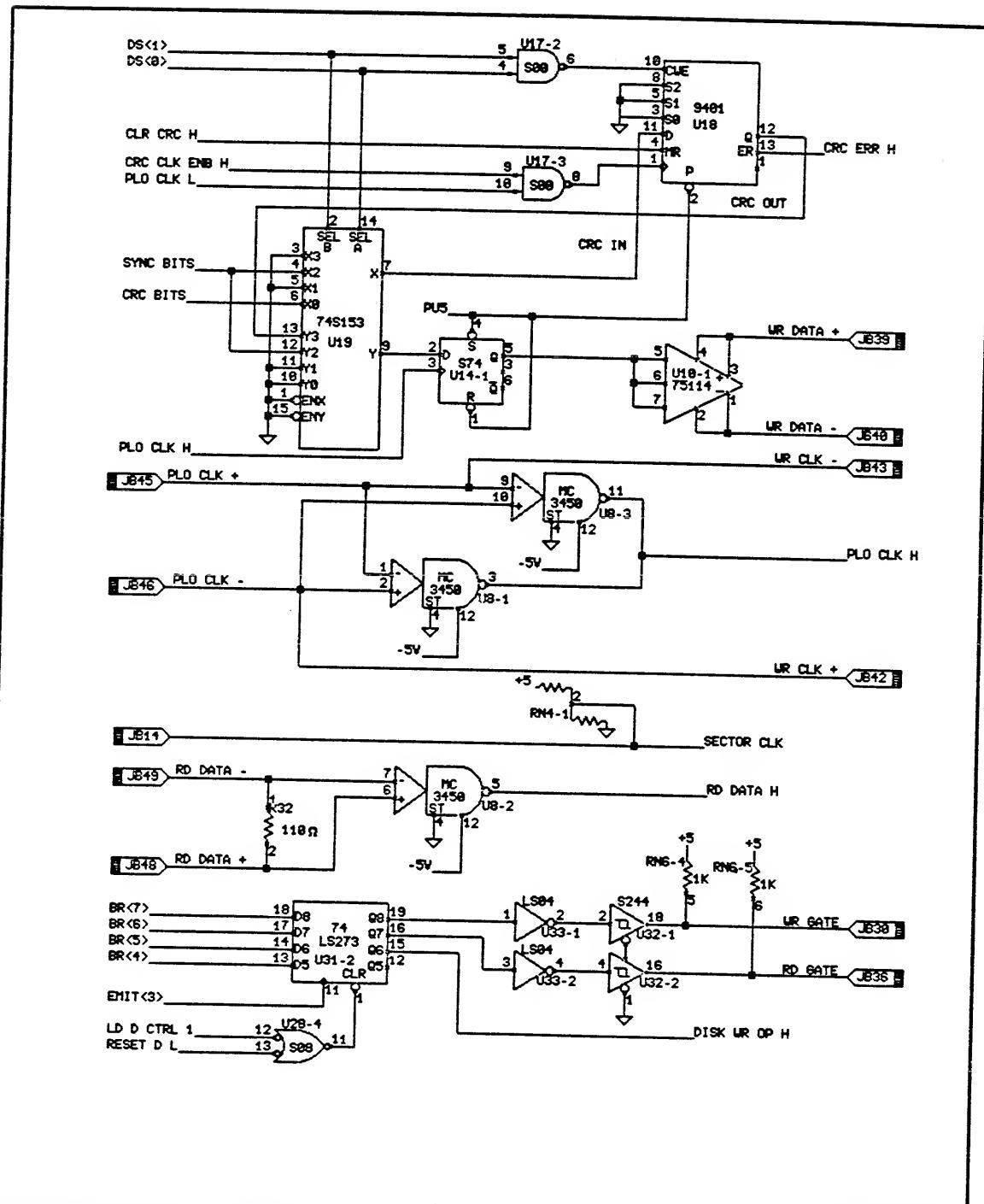
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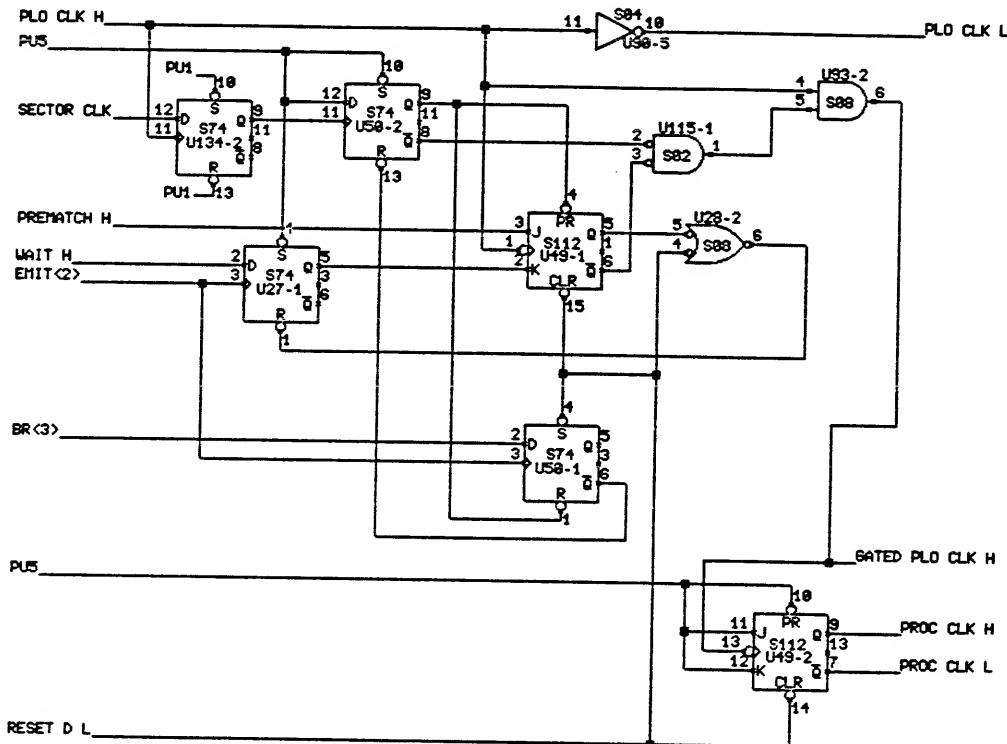
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DISK INTERFACE

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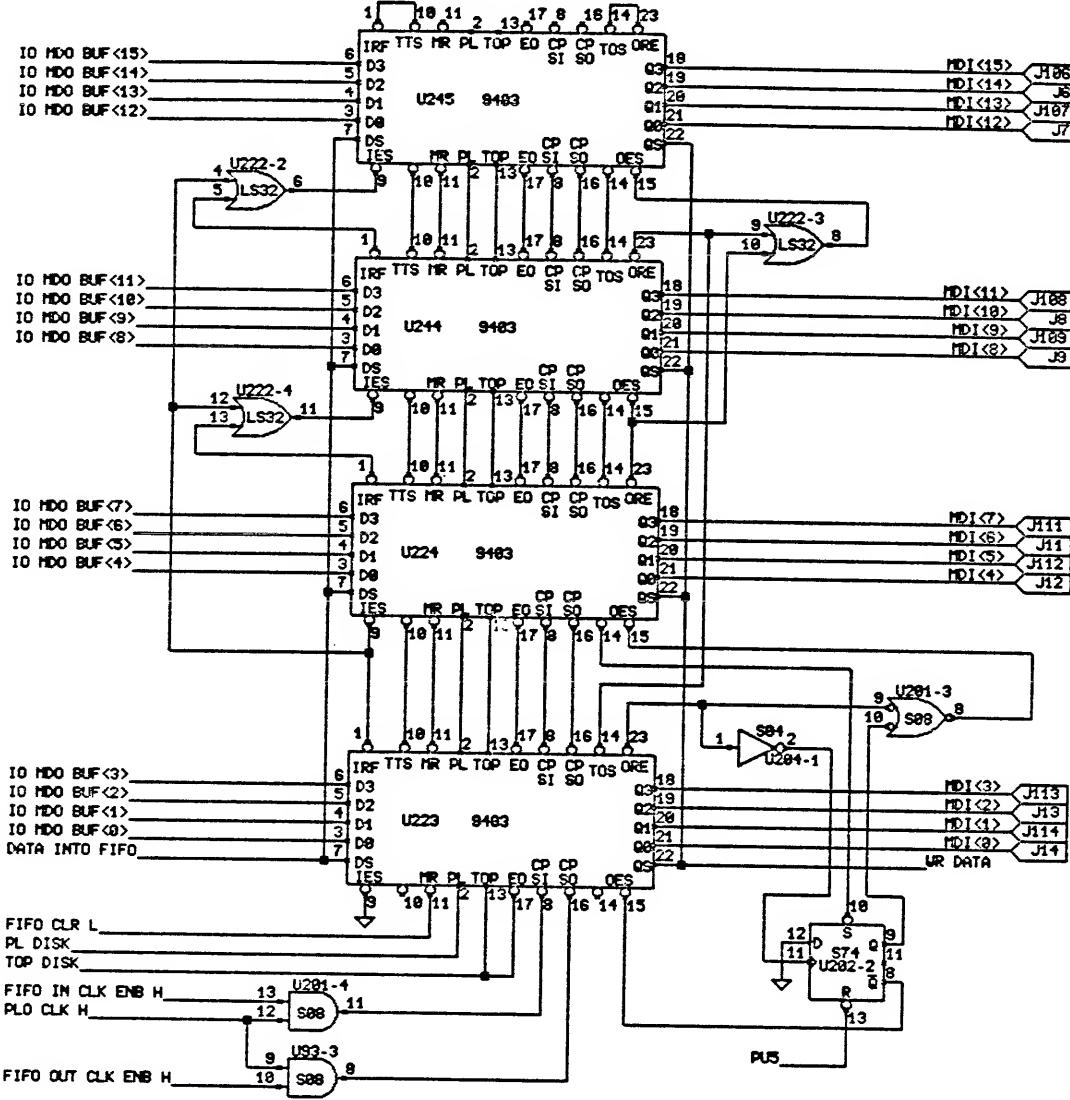
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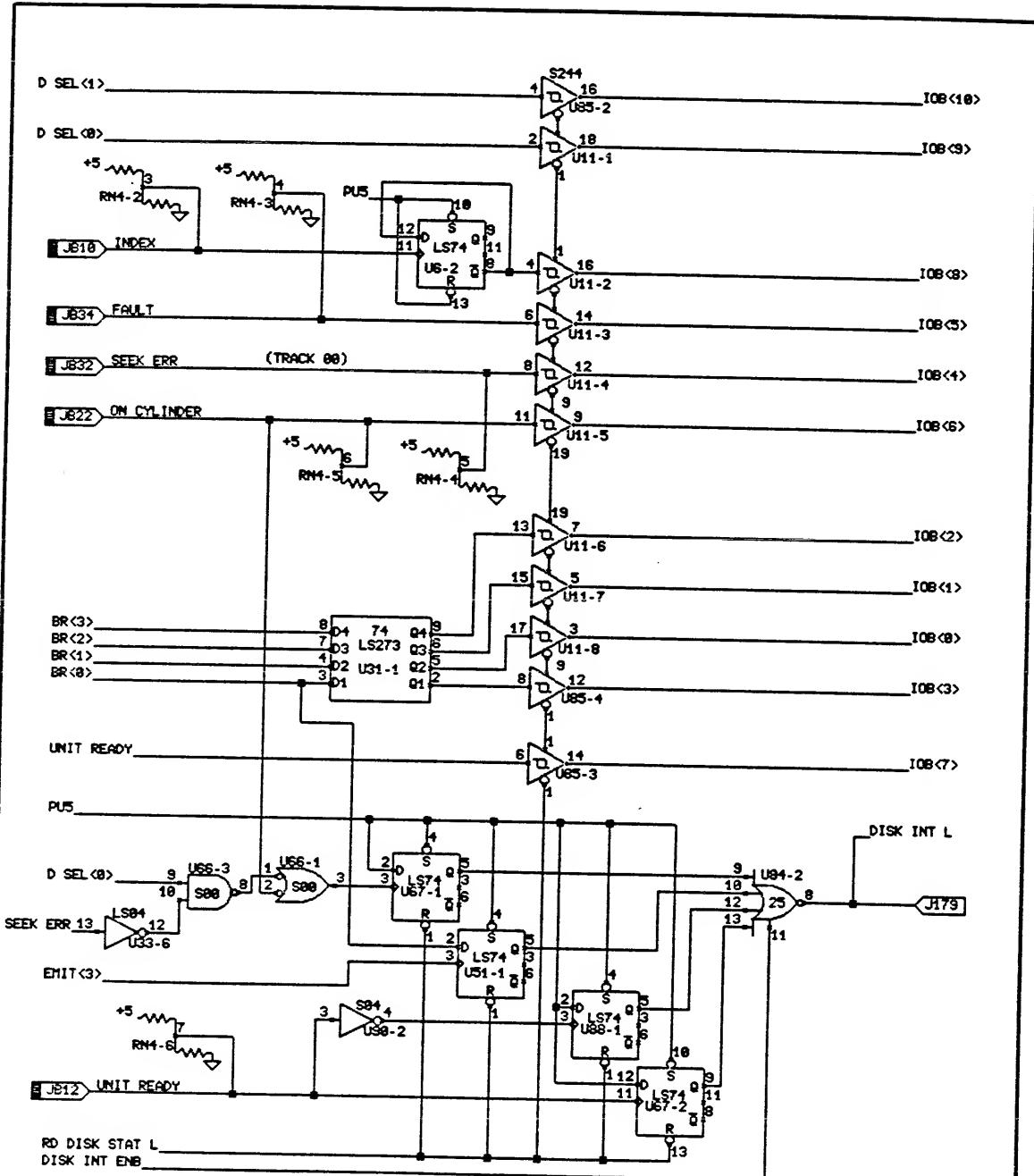
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SEL SIO A L.....	27	15
SEL SIO B L.....	27	16
SEL USEC CLK L.....	47	46
SIDE SEL L.....	19	18
SIO ACK L.....	15	14
SIO INT ENB.....	16	15
SIO RQST L.....	15	14
SM ADDR<0>.....	30	29
SM ADDR<1>.....	30	29
SM ADDR<2>.....	30	29
SM ADDR<3>.....	30	29
SM ADDR<4>.....	30	29
SM ADDR<5>.....	30	29
SM ADDR<6>.....	30	29
SM ADDR<7>.....	30	29
SM ADDR<8>.....	30	29
SMA<0>.....	52	48
SMA<1>.....	52	48
SMD ADDR<0>.....	49	48
SMD ADDR<1>.....	49	48
SMD ADDR<2>.....	49	48
SMD ADDR<3>.....	49	48
SMD ADDR<4>.....	49	48
SMD ADDR<5>.....	49	48
SMD ADDR<6>.....	49	48
SMD ADDR<7>.....	49	48
SMD ADDR<8>.....	49	48
SPEAK DATA IN.....	20	15
SPEAKER.....	20	
SPEECH CLK.....	20	15
SPEECH RQST L.....	15	
SPEECH SEL L.....	27	15
STEP CRC H.....	43	38
STEP L.....	19	18
SYNC BITS.....	53	50
SYNC L.....	44	42

T BIT.....	51	49
T2 BIT.....	51	49
TABLET CLK.....	15	
TABLET DATA L.....	15	
TC IN B.....	16	
TESTCLK.....	27	21
TOP DISK.....	55	3
TOP EXT A L.....	3	
TOP EXT B L.....	3	
TOP NET.....	36	3
TOP UPROC.....	10	3
TRANSMIT H.....	45	32
TZ CLK.....	17	16 15 14 13 12 9 7
UNIT READY.....	56	
UNIT SEL L.....	19	18
UNLD DISK RQST L.....	52	3
UNLD EXT A RQST L.....	5	3
UNLD EXT B RQST L.....	3	
UNLD IN FIFO L.....	35	31
UNLD NET FIFO L.....	37	31
UNLD NET RQST L.....	36	3
UNLD UPROC RQST L.....	7	3
UPROC ENB.....	24	8
UPROC INT L.....	8	
UPROC RDY.....	9	8
UPROC RDY ENB.....	24	9
UPROC RDY INT L.....	9	
UPROC RQST H.....	7	2
UPROC WR H.....	27	7 2
USEC CLK OVFL H.....	47	46 43
USEC I<2>.....	47	46
WA<1>.....	4	3
WA<2>.....	4	3
WA<3>.....	4	3
WAIT FOR SYNC H.....	43	42
WAIT H.....	54	49
WCLK.....	25	18
WCNT L.....	5	4
WHI L.....	6	5
WLO L.....	6	5
WR CLK +.....	53	
WR CLK -.....	53	
WR DATA.....	55	50
WR DATA +.....	53	
WR DATA -.....	53	
WR GATE.....	53	
WR L.....	27	26 18 17 16 15 13 12 7
WREG L.....	5	4
X CONST ENB L.....	33	31
X MUX<0>.....	43	37 36 35 33 32
X MUX<1>.....	43	37 36 35 33
X MUX<2>.....	43	37 36 35 33

X MUX<3>	43	37	36	35	33
X MUX<4>	43	37	36	35	33
X MUX<5>	43	37	36	35	33
X MUX<6>	37	36	35	33	
X MUX<7>	43	37	36	35	33
X SEL<0>	31	30			
X SEL<1>	31	30			
XMIT BIT STREAM	39				
XMIT CLK SEL H	43	42			
XMIT DONE L	44	43			
XMIT FIFO DATA H	42	39	37		
XMIT H	44	43	39	37	32
XMIT L	43	37			
Y MUX<0>	37	34	33		
Y MUX<1>	37	34	33		
Y MUX<2>	37	34	33		
Y MUX<3>	37	34	33		
Y MUX<4>	37	34	33		
Y MUX<5>	37	34	33		
Y MUX<6>	37	34	33		
Y MUX<7>	37	34	33		
Y SEL<0>	34	31	30		
Y SEL<1>	34	31	30		
Y SEL<2>	34	31	30		
Y SEL<3>	34	33	30		
Z CLK	16	15	12		
Z80 INT L	16	15	13	12	
Z80 WAIT L	14	12			

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This Run Was made using the following files:

110006.PART

e56.WL

e55.WL

e54.WL

e53.WL

e52.WL

e51.WL

e50.WL

e49.WL

e48.WL

e47.WL

e46.WL

e45.WL

e44.WL

e43.WL

e42.WL

e41.WL

e40.WL

e39.WL

e38.WL

e37.WL

e36.WL

e35.WL

e34.WL

e33.WL

e32.WL

e31.WL

e30.WL

e29.WL

e28.WL

e27.WL

e26.WL

e25.WL

e24.WL

e23.WL

e22.WL

e21.WL

e20.WL

e19.WL

e18.WL

e17.WL

e16.WL

e15.WL

e14.WL

e13.WL

e12.WL

e11.WL

e10.WL

e09.WL

e08.WL

e07.WL  
e06.WL  
e05.WL  
e04.WL  
e03.WL  
e02.WL  
e01.WL

Number Of Nets = 1077

Begin Wirelist

1: U213-15 U213-4 U213-7 R1-1 R2-1 U197-8  
1: U197-10 U203-5 U203-4 U200-4 U110-1  
1: U181-5 U109-19 U181-4 U109-15 U148-11  
1: U164-15 U163-7 U149-3 U149-12 U150-13  
1: U218-12 U217-12 U215-2 U217-1 U236-13  
1: U216-15 U217-2 U220-12 U221-12 U219-12  
1: U123-4 U123-5 U123-6 U146-15 U146-3  
1: U146-13 U146-2 U65-1 U46-1 U126-24  
1: U126-25 C103-2 U158-22 U143-1 U143-15  
1: U143-4 U158-23 U157-22 U157-23 U22-3  
1: U22-1 U15-19 U16-19 U86-6 JA43-1  
1: JA41-1 JA39-1 JA37-1 JA35-1 JA33-1  
1: JA31-1 JA29-1 JA3-1 JA1-1 JA5-1 JA7-1  
1: JA9-1 JA25-1 JA23-1 JA21-1 JA19-1  
1: JA17-1 JA15-1 JA13-1 JA11-1 JA27-1  
1: JA45-1 JA47-1 JA49-1 C139-2 C159-2  
1: U225-15 U225-2 R7-2 C121-2 R13-2  
1: U227-6 U187-15 R12-2 U227-7 U227-12  
1: U227-11 U227-10 U227-5 U227-4 U227-3  
1: U225-1 U225-13 C36-1 B1-2 C35-1 U168-1  
1: U242-1 U243-1 U161-1 U175-7 U108-4  
1: U175-12 U175-14 U175-11 U175-5 U175-4  
1: U175-3 U108-3 U122-22 U233-5 U230-13  
1: U230-11 U230-10 U35-13 U35-23 U35-25  
1: U35-27 U35-29 U36-15 U56-15 U75-15  
1: U114-15 U94-19 U73-3 U69-1 U69-4  
1: U53-13 U52-13 U87-15 U177-9 U54-1  
1: U113-3 U117-7 U116-11 U137-11 U138-11  
1: U117-11 R19-2 R34-1 R18-2 R20-2 C158-2  
1: C155-2 U198-11 U94-1 U95-15 U112-19  
1: U78-11 U212-1 U196-1 U1-27 U4-15  
1: U1-29 U1-25 U1-23 U1-13 JP2-1 JP3-1  
1: U47-5 U7-7 U7-4 U5-15 U26-15 U2-15  
1: U24-15 U39-1 U34-1 U77-5 U58-15 U59-2  
1: U60-2 U40-6 U77-4 U112-1 U12-1 U12-19  
1: JB33-1 JB35-1 JB37-1 JB38-1 JB1-1  
1: JB3-1 JB5-1 JB7-1 JB9-1 JB11-1 JB13-1  
1: JB15-1 JB17-1 JB19-1 JB21-1 JB23-1  
1: JB25-1 JB27-1 JB29-1 JB31-1 JB41-1  
1: JB44-1 JB47-1 JB50-1 C137-2 C136-2

1: Q1-1 U68-9 U32-1 U8-4 U19-5 U18-3  
1: U18-5 U18-8 U19-3 U19-11 U19-10 U19-15  
1: U19-1 U223-9 U202-12 .!GND

2: R35-2 B1-1 .%B1-1

3: U187-12 U187-5 R13-1 U187-10 C121-1 .%C121-1

4: U187-6 R8-2 C124-2 .%C124-2

5: U227-8 C126-1 .%C126-1

6: U227-1 C139-1 .%C139-1

7: R8-1 U187-7 C124-1 C153-1 .%C153-1

8: U63-15 C25-2 .%C25-2

9: R35-1 D2-1 .%D2-1

10: U62-1 D1-2 D2-2 .%D2-2

11: U187-11 R9-1 R10-2 .%R10-2

12: U187-4 R11-2 .%R11-2

13: U187-3 R9-2 C125-2 R12-1 .%R12-1

14: R28-1 U226-3 C140-1 R23-1 .%R23-1

15: U226-9 R24-1 .%R24-1

16: R28-2 C154-1 U226-4 R24-2 .%R24-2

17: R21-1 C156-2 U206-3 R27-1 .%R27-1

18: R22-2 C157-2 U206-4 R27-2 .%R27-2

19: C25-1 U63-14 R30-2 .%R30-2

20: C37-2 U63-2 R31-2 .%R31-2

21: U229-13 U229-7 U229-4 U229-10 R33-1 .%R33-1

21: R34-2 .%R34-2

22: C135-2 R6-1 .%R6-1

23: R7-1 U227-2 R6-2 .%R6-2

24: U16-4 RN5-5 .%RN5-5

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25: U205-5 RN9-5	.%RN9-5
26: U190-12 RN9-9	.%RN9-9
27: U4-10 U1-35	.%U1-35
28: U4-13 U1-37	.%U1-37
29: U10-5 U14-5 U10-6 U10-7	.%U10-7
30: U127-8 U107-11	.%U107-11
31: U108-5 U151-4 RN2-9 U108-6 U210-6	
31: U210-9 U210-3 U210-4 U210-5 U210-10	
31: U210-7 U175-2 U175-1 U151-14 U151-12	
31: U151-11 U151-2 U151-3 U151-10 U151-15	
31: U175-9 U108-1 U210-1 U108-10 U108-7	
31:	.%U108-7
32: U108-11 U108-9	.%U108-9
33: U110-2 U109-1	.%U109-1
34: U110-13 U109-11	.%U109-11
35: U110-14 U109-12	.%U109-12
36: U110-17 U109-13	.%U109-13
37: U110-18 U109-14	.%U109-14
38: U110-5 U109-2	.%U109-2
39: U114-2 U110-6 U109-3	.%U109-3
40: U110-3 U109-6	.%U109-6
41: U110-4 U109-7	.%U109-7
42: U110-7 U109-8	.%U109-8
43: U110-8 U109-9	.%U109-9
44: U31-9 U11-13	.%U11-13
45: U31-5 U11-17	.%U11-17
46: U94-18 U113-12	.%U113-12
47: U120-23 U120-14 U113-4	.%U113-4
48: U110-9 U109-4 U114-3	.%U114-3

49: U23-4 U114-7	.%U114-7
50: U93-5 U115-1	.%U115-1
51: U50-8 U115-2	.%U115-2
52: U49-6 U115-3	.%U115-3
53: U137-1 U116-1 U115-13 U138-1 U117-1	
53:	.%U117-1
54: U138-12 U117-6	.%U117-6
55: U118-5 U118-12	.%U118-12
56: U83-11 U118-2	.%U118-2
57: U13-5 U12-2	.%U12-2
58: U13-19 U12-8	.%U12-8
59: U120-9 U121-1	.%U121-1
60: U130-11 U121-15	.%U121-15
61: U172-6 U123-1	.%U123-1
62: U126-26 U124-5	.%U124-5
63: RN1-3 U126-12	.%U126-12
64: U82-8 U127-7	.%U127-7
65: U124-8 U128-2	.%U128-2
66: U145-16 U128-4	.%U128-4
67: U12-13 U13-12	.%U13-12
68: U12-11 U13-15	.%U13-15
69: U112-6 U13-16	.%U13-16
70: U12-4 U13-2	.%U13-2
71: U12-17 U13-6	.%U13-6
72: U12-15 U13-9	.%U13-9
73: U144-27 U130-9 U130-10	.%U130-10

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74: U113-6 U130-13	.%U130-13
75: U53-3 U52-3 U130-3	.%U130-3
76: U16-11 U131-10	.%U131-10
77: U145-29 U131-11	.%U131-11
78: U86-5 U131-2	.%U131-2
79: U86-7 U131-5	.%U131-5
80: U126-22 U131-8	.%U131-8
81: U44-10 U133-1	.%U133-1
82: U215-11 U42-4 U134-3	.%U134-3
83: U136-9 U135-8	.%U135-8
84: U135-9 U136-1	.%U136-1
85: U135-12 U136-6	.%U136-6
86: U76-4 U198-3 U136-8	.%U136-8
87: U138-2 U117-2 U116-2 U76-8 U137-2	.%U137-2
88: U116-12 U137-6	.%U137-6
89: U137-12 U138-6	.%U138-6
90: U19-9 U14-2	.%U14-2
91: RN8-3 U144-17	.%U144-17
92: U33-11 U145-14	.%U145-14
93: U15-9 U145-17	.%U145-17
94: U21-1 U16-15 U145-25	.%U145-25
95: U15-17 U145-27	.%U145-27
96: U21-13 U145-30	.%U145-30
97: U15-16 U16-16 U145-33	.%U145-33
98: U15-18 U16-18 U145-34	.%U145-34
99: U15-7 U145-35	.%U145-35

100: U15-8 U145-37	.%U145-37
101: U16-8 U15-6 U145-38	.%U145-38
102: U131-13 U145-39	.%U145-39
103: U238-1 U237-2 U147-21	.%U147-21
104: U25-6 U148-7	.%U148-7
105: U150-18 U149-1	.%U149-1
106: U150-2 U149-10	.%U149-10
107: U150-3 U149-11	.%U149-11
108: U150-16 U149-16	.%U149-16
109: U150-17 U149-17	.%U149-17
110: U150-19 U149-2	.%U149-2
111: U150-11 U149-7	.%U149-7
112: U150-1 U149-8	.%U149-8
113: U145-36 U15-15	.%U15-15
114: U162-3 U152-17	.%U152-17
115: RN8-10 U157-11	.%U157-11
116: U205-8 U157-12	.%U157-12
117: U189-4 U157-16	.%U157-16
118: U205-3 U157-18	.%U157-18
119: U205-6 U157-19	.%U157-19
120: RN1-8 U158-11	.%U158-11
121: U190-8 U158-12	.%U158-12
122: U192-3 U158-13	.%U158-13
123: U207-9 U158-16	.%U158-16
124: U190-3 U158-18	.%U158-18
125: U190-6 U158-19	.%U158-19

126: U112-7 U158-29	.%U158-29
127: U172-8 U158-33	.%U158-33
128: U143-7 U158-34	.%U158-34
129: U172-11 U158-35	.%U158-35
130: U158-28 U161-4 U112-8 U158-27 U159-13	
130:	.%U159-13
131: U193-4 U159-17	.%U159-17
132: U157-28 U157-27 U160-13	.%U160-13
133: U160-14 RN1-5 U160-11 U160-16	.%U160-16
134: R5-2 U161-16	.%U161-16
135: U131-4 U162-1	.%U162-1
136: U234-13 U162-8	.%U162-8
137: U148-16 U163-1	.%U163-1
138: U179-7 U164-6 U163-10	.%U163-10
139: U179-4 U164-3 U163-11	.%U163-11
140: U148-13 U163-13	.%U163-13
141: U148-14 U163-14	.%U163-14
142: U148-15 U163-15	.%U163-15
143: U148-17 U163-2	.%U163-2
144: U148-18 U163-3	.%U163-3
145: U148-19 U163-4	.%U163-4
146: U179-9 U164-10 U163-9	.%U163-9
147: U165-10 U164-11	.%U164-11
148: U165-2 U164-2	.%U164-2
149: U165-7 U164-5	.%U164-5
150: U181-10 U166-4	.%U166-4

151: U181-14 U166-9	.%U166-9
152: U146-12 U172-5	.%U172-5
153: U173-5 U173-1	.%U173-1
154: U196-10 U201-6 U173-3	.%U173-3
155: U228-12 U175-15	.%U175-15
156: U132-10 U176-11	.%U176-11
157: U198-9 U176-2	.%U176-2
158: U112-9 U177-1	.%U177-1
159: U17-8 U18-1	.%U18-1
160: U17-6 U18-10	.%U18-10
161: U19-7 U18-11	.%U18-11
162: U19-13 U18-12	.%U18-12
163: U203-3 U180-10	.%U180-10
164: U203-1 U180-2	.%U180-2
165: U203-2 U180-7	.%U180-7
166: U166-13 U181-9	.%U181-9
167: RN9-7 U188-12	.%U188-12
168: RN9-8 U188-9	.%U188-9
169: RN1-7 U189-12 U189-5 U189-10	.%U189-10
170: U157-15 U189-2	.%U189-2
171: U157-17 U189-9	.%U189-9
172: U192-2 U190-11	.%U190-11
173: RN9-6 U190-5	.%U190-5
174: U113-5 U191-10	.%U191-10
175: U195-11 U191-11	.%U191-11
176: U199-15 U191-13	.%U191-13

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177: U215-6 U191-5	.%U191-5
178: U120-15 U191-8	.%U191-8
179: U159-10 U192-1	.%U192-1
180: U189-13 U157-14 U192-11	.%U192-11
181: U160-17 U192-13	.%U192-13
182: U160-10 U193-1	.%U193-1
183: U215-4 U193-11	.%U193-11
184: U205-11 U193-2	.%U193-2
185: U157-13 U193-3	.%U193-3
186: U188-8 U193-5	.%U193-5
187: U201-4 U193-8	.%U193-8
188: U83-6 U194-11	.%U194-11
189: U197-17 U195-10	.%U195-10
190: U197-16 U195-12	.%U195-12
191: U197-3 U195-2	.%U195-2
192: U197-2 U195-5	.%U195-5
193: U197-1 U195-7	.%U195-7
194: U173-2 U196-20	.%U196-20
195: U196-2 U196-3	.%U196-3
196: U213-9 U199-6 U197-12	.%U197-12
197: U199-4 U213-10 U197-13	.%U197-13
198: U199-3 U213-11 U197-14	.%U197-14
199: U199-12 U197-15	.%U197-15
200: U76-6 U198-2	.%U198-2
201: U201-2 U200-14	.%U200-14
202: U200-11 U201-1	.%U201-1

203: U224-15 U201-8	.%U201-8
204: U91-8 U215-13 U198-10 U202-1	.%U202-1
205: U245-23 U245-14 U244-14 U224-14 U202-10	
205:	.%U202-10
206: U204-2 U202-11	.%U202-11
207: U176-1 U202-6	.%U202-6
208: U223-15 U202-8	.%U202-8
209: U201-10 U202-9	.%U202-9
210: U128-8 U203-10	.%U203-10
211: U204-3 U203-11	.%U203-11
212: U228-5 U203-13	.%U203-13
213: U203-12 U204-5	.%U204-5
214: U203-9 U204-9	.%U204-9
215: RN9-10 U205-12	.%U205-12
216: R29-1 C155-1 U226-6 U206-6	.%U206-6
217: R22-1 U206-9	.%U206-9
218: U193-6 U158-14 U207-13	.%U207-13
219: U158-15 U207-2	.%U207-2
220: U158-17 U207-4	.%U207-4
221: U233-4 U208-9	.%U208-9
222: U208-15 U209-4	.%U209-4
223: U21-5 U22-6 U21-10	.%U21-10
224: U108-12 U210-2	.%U210-2
225: U132-8 U212-10	.%U212-10
226: U212-2 U212-3	.%U212-3
227: U228-10 U214-13	.%U214-13
228: U219-16 U214-15	.%U214-15

229: U219-17 U214-16	.%U214-16
230: U219-1 U214-17	.%U214-17
231: U219-2 U214-18	.%U214-18
232: U228-8 U215-3	.%U215-3
233: U191-1 U215-5	.%U215-5
234: U236-18 U217-16	.%U217-16
235: U236-19 U217-17	.%U217-17
236: U236-16 U218-1	.%U218-1
237: U236-15 U218-17	.%U218-17
238: U236-17 U218-2	.%U218-2
239: U145-32 U22-14	.%U22-14
240: U145-31 U22-2	.%U22-2
241: U21-7 U22-4	.%U22-4
242: U21-12 U21-15 U22-5	.%U22-5
243: U16-17 U22-7	.%U22-7
244: U235-15 U221-2	.%U221-2
245: U245-15 U222-8	.%U222-8
246: U222-4 U222-12 U224-9 U223-1	.%U223-1
247: U245-1 U245-10 U244-10 U224-10 U223-10	.%U223-10
248: U222-9 U244-23 U223-14	.%U223-14
249: U204-1 U201-9 U223-23	.%U223-23
250: U222-13 U224-1	.%U224-1
251: U222-10 U244-15 U224-23	.%U224-23
252: C153-2 U225-10	.%U225-10
253: C135-1 U225-4	.%U225-4

254: R25-2 U206-1 C158-1 U226-1	.%U226-1
255: R26-2 U206-13 U206-8 U226-8 U226-13	
255:	.%U226-13
256: R17-1 R16-2 U229-12	.%U229-12
257: U46-19 U23-3	.%U23-3
258: U221-16 U234-17	.%U234-17
259: U221-17 U234-18	.%U234-18
260: U221-1 U234-19	.%U234-19
261: U162-11 U235-12	.%U235-12
262: U176-6 U235-13	.%U235-13
263: U220-16 U235-16	.%U235-16
264: U220-17 U235-17	.%U235-17
265: U220-1 U235-18	.%U235-18
266: U220-2 U235-19	.%U235-19
267: U147-30 U237-12	.%U237-12
268: U147-29 U237-13	.%U237-13
269: U147-28 U237-14	.%U237-14
270: U147-27 U237-15	.%U237-15
271: U147-26 U237-16	.%U237-16
272: U147-25 U237-17	.%U237-17
273: U147-24 U237-18	.%U237-18
274: U147-23 U237-19	.%U237-19
275: U147-22 U237-20	.%U237-20
276: U147-31 U238-12	.%U238-12
277: U147-32 U238-13	.%U238-13
278: U147-33 U238-14	.%U238-14
279: U147-34 U238-15	.%U238-15

280: U147-35 U238-16	.%U238-16
281: U147-36 U238-17	.%U238-17
282: U147-37 U238-18	.%U238-18
283: U147-38 U238-19	.%U238-19
284: U47-3 U24-12	.%U24-12
285: U47-2 U24-13	.%U24-13
286: U47-1 U24-14	.%U24-14
287: U17-3 U240-19	.%U240-19
288: U222-5 U244-1	.%U244-1
289: U222-11 U244-9	.%U244-9
290: U93-8 U223-16 U224-16 U244-16 U245-16	
290:	.%U245-16
291: U201-11 U223-8 U224-8 U244-8 U245-8	
291:	.%U245-8
292: U222-6 U245-9	.%U245-9
293: U30-17 U115-5 U25-12	.%U25-12
294: JB20-1 U25-8	.%U25-8
295: U28-8 U27-11	.%U27-11
296: U49-2 U27-5	.%U27-5
297: U49-5 U28-5	.%U28-5
298: U27-1 U28-6	.%U28-6
299: U1-1 U3-13	.%U3-13
300: U1-3 U3-14	.%U3-14
301: U1-18 U3-17	.%U3-17
302: U1-20 U3-18	.%U3-18
303: U4-12 U3-7	.%U3-7
304: U1-39 U3-8	.%U3-8

305: U115-4 U30-11	.%U30-11
306: U29-12 U30-13	.%U30-13
307: U29-15 U30-14	.%U30-14
308: U29-19 U30-18	.%U30-18
309: U115-6 U30-19	.%U30-19
310: U29-2 U30-7	.%U30-7
311: U29-6 U30-8	.%U30-8
312: U28-11 U31-1	.%U31-1
313: U33-1 U31-19	.%U31-19
314: U85-8 U31-2	.%U31-2
315: U11-15 U31-6	.%U31-6
316: U33-2 U32-2	.%U32-2
317: U33-4 U32-4	.%U32-4
318: U66-10 U33-12	.%U33-12
319: U31-16 U33-3	.%U33-3
320: U127-9 U33-5	.%U33-5
321: U107-1 U33-6	.%U33-6
322: U74-2 U35-22	.%U35-22
323: U35-1 U37-13	.%U37-13
324: U35-3 U37-14	.%U37-14
325: U35-18 U37-17	.%U37-17
326: U35-20 U37-18	.%U37-18
327: U35-33 U37-3	.%U37-3
328: U35-35 U37-4	.%U37-4
329: U35-37 U37-7	.%U37-7
330: U35-39 U37-8	.%U37-8

331: U39-8 U38-10	.%U38-10
332: U39-6 U38-11	.%U38-11
333: U39-4 U38-12	.%U38-12
334: U39-2 U38-13	.%U38-13
335: U39-17 U38-3	.%U38-3
336: U39-15 U38-4	.%U38-4
337: U39-11 U38-6	.%U38-6
338: U59-5 U40-5 U39-12	.%U39-12
339: U59-9 U40-3 U39-16	.%U39-16
340: U59-11 U40-2 U39-18	.%U39-18
341: U90-1 U39-19	.%U39-19
342: U60-5 U40-14 U39-3	.%U39-3
343: U60-7 U40-12 U39-5	.%U39-5
344: U60-9 U40-11 U39-7	.%U39-7
345: U60-11 U40-10 U39-9	.%U39-9
346: U1-7 U4-1	.%U4-1
347: U1-33 U4-6	.%U4-6
348: U66-11 U40-15	.%U40-15
349: U42-3 U42-2	.%U42-2
350: U80-9 U45-10	.%U45-10
351: U62-18 U80-12 U45-11	.%U45-11
352: U80-2 U62-4 U45-5	.%U45-5
353: U80-5 U62-5 U45-6	.%U45-6
354: U80-6 U62-6 U45-7	.%U45-7
355: U80-15 U62-7 U45-8	.%U45-8
356: U62-3 U80-16 U45-9	.%U45-9

357: U45-4 U62-12 U46-11	.%U46-11
358: U86-1 U46-14	.%U46-14
359: U45-1 U62-10 U46-15	.%U46-15
360: U45-2 U62-9 U46-17	.%U46-17
361: U50-9 U50-1 U49-4	.%U49-4
362: U7-9 U5-12	.%U5-12
363: U134-9 U50-11	.%U50-11
364: U50-6 U50-13	.%U50-13
365: U30-12 U51-12	.%U51-12
366: U84-10 U51-5	.%U51-5
367: U87-4 U53-1 U52-1	.%U52-1
368: U87-9 U53-14 U52-14	.%U52-14
369: U87-7 U53-15 U52-15	.%U52-15
370: U87-12 U53-2 U52-2	.%U52-2
371: U77-6 U58-11	.%U58-11
372: U77-7 U58-14	.%U58-14
373: U77-3 U58-2	.%U58-2
374: U77-2 U58-5	.%U58-5
375: U39-14 U40-4 U59-7	.%U59-7
376: U11-4 U6-8 U6-12	.%U6-12
377: U1-22 U6-2	.%U6-2
378: U58-4 U59-1 U60-1	.%U60-1
379: U58-12 U59-13 U60-13	.%U60-13
380: U58-9 U59-14 U60-14	.%U60-14
381: U58-7 U59-15 U60-15	.%U60-15
382: U23-11 U59-3 U60-3	.%U60-3

383: U45-3 U46-13 U62-11	.%U62-11
384: X2-1 C36-2 U62-16	.%U62-16
385: C37-1 U63-1	.%U63-1
386: U64-5 U65-12	.%U65-12
387: U64-6 U65-15	.%U65-15
388: U64-7 U65-16	.%U65-16
389: U64-8 U65-19	.%U65-19
390: U48-5 U65-2	.%U65-2
391: U48-6 U65-5	.%U65-5
392: U48-7 U65-6	.%U65-6
393: U48-8 U65-9	.%U65-9
394: U47-4 U66-6	.%U66-6
395: U66-1 U66-8	.%U66-8
396: U66-3 U67-3	.%U67-3
397: U84-9 U67-5	.%U67-5
398: U84-13 U67-9	.%U67-9
399: U70-15 U69-12	.%U69-12
400: U70-14 U69-15	.%U69-15
401: U70-13 U69-16	.%U69-16
402: U70-4 U69-2	.%U69-2
403: U70-3 U69-5	.%U69-5
404: U70-2 U69-6	.%U69-6
405: U70-1 U69-9	.%U69-9
406: U5-13 U7-10	.%U7-10
407: U5-14 U7-11	.%U7-11
408: U94-3 U70-7	.%U70-7

409: U71-8 U72-10	.%U72-10
410: U71-13 U72-12	.%U72-12
411: U71-3 U72-2	.%U72-2
412: U71-4 U72-5	.%U72-5
413: U71-7 U72-7	.%U72-7
414: U54-19 U76-1	.%U76-1
415: U79-9 U78-8	.%U78-8
416: U79-1 U79-5	.%U79-5
417: U82-1 U44-7 U81-4	.%U81-4
418: U83-2 U82-2	.%U82-2
419: U123-11 U82-3	.%U82-3
420: U83-4 U123-9 U82-4	.%U82-4
421: U127-10 U82-5	.%U82-5
422: U174-14 U83-3	.%U83-3
423: U90-4 U88-3	.%U88-3
424: U84-12 U88-5	.%U88-5
425: U12-6 U9-16	.%U9-16
426: U89-8 U90-5	.%U90-5
427: U134-1 U91-6	.%U91-6
428: U94-13 U92-9	.%U92-9
429: U92-7 U94-11	.%U94-11
430: U92-10 U94-15	.%U94-15
431: U91-13 U91-3 U94-16	.%U94-16
432: U94-14 U94-8	.%U94-8
433: U91-1 U91-2 U96-6	.%U96-6
434: U94-4 U96-8	.%U96-8

435: U62-17 C35-2 X2-2 .%X2-2  
436: U207-14 U189-14 C159-1 U227-14 J2-1  
436: R25-1 .+12V  
437: J94-1 C125-1 R10-1 U225-14 R11-1  
437: D1-1 U122-27 U122-26 U122-1 R33-2  
437: .+5V  
438: U207-1 U189-1 R29-2 J99-1 Q1-2 C137-1  
438: .-12V  
439: U225-8 C136-1 Q1-3 U8-12 .-5V  
440: U210-12 U211-11 .1 MHZ  
441: U151-9 U121-16 U120-16 U136-10 U95-10  
441: .10 MHZ H  
442: U151-7 U136-13 U135-11 U95-13 .10 MHZ L  
443: U225-12 U210-13 .2 MHZ  
444: U151-13 U151-5 U198-1 .20 MHZ  
445: U46-2 U46-4 U21-9 U175-6 U210-14  
445: .4 MHZ  
446: U90-6 U108-2 U151-1 .40 MHZ  
447: U145-19 U86-3 U108-13 .8 MHZ  
448: U161-14 U126-27 U143-3 U143-5 U159-19  
448: U157-34 U160-19 U147-6 U145-5 U106-1  
448: U105-1 U104-1 U103-1 U102-1 U101-1  
448: U99-1 U100-1 U122-10 U174-1 U81-1  
448: .A<0>  
449: U144-40 U107-6 U106-16 U105-16 U104-16  
449: U103-16 U102-16 U101-16 U99-16 U100-16  
449: U122-21 .A<10>  
450: U144-1 U107-9 U106-17 U105-17 U104-17  
450: U103-17 U102-17 U101-17 U99-17 U100-17  
450: U122-23 .A<11>  
451: U144-2 U107-12 U106-18 U105-18 U104-18  
451: U103-18 U102-18 U101-18 U99-18 U100-18  
451: U122-2 .A<12>  
452: U144-3 U107-15 U106-19 U105-19 U104-19

452: U103-19 U102-19 U101-19 U99-19 U100-19  
452: U125-7 .A<13>  
453: U144-4 U107-16 U125-8 .A<14>  
454: U144-5 U107-19 U125-9 .A<15>  
455: U161-12 U172-10 U159-20 U157-33 U160-20  
455: U147-7 U106-2 U105-2 U104-2 U103-2  
455: U102-2 U101-2 U99-2 U100-2 U122-9  
455: U174-2 U81-2 .A<1>  
456: U32-12 U147-8 U106-3 U105-3 U104-3  
456: U103-3 U102-3 U101-3 U99-3 U100-3  
456: U122-8 U174-3 U81-3 U133-2 .A<2>  
457: U32-14 U106-4 U105-4 U104-4 U103-4  
457: U102-4 U101-4 U99-4 U100-4 U122-7  
457: U81-5 U83-1 U133-3 .A<3>  
458: U144-34 U127-37 U106-5 U105-5 U104-5  
458: U103-5 U102-5 U101-5 U99-5 U100-5  
458: U122-6 U44-1 .A<4>  
459: U144-35 U127-38 U106-6 U105-6 U104-6  
459: U103-6 U102-6 U101-6 U99-6 U100-6  
459: U122-5 U44-2 .A<5>  
460: U144-36 U127-39 U106-7 U105-7 U104-7  
460: U103-7 U102-7 U101-7 U99-7 U100-7  
460: U122-4 U44-3 .A<6>  
461: U144-37 U127-40 U106-13 U105-13 U104-13  
461: U103-13 U102-13 U101-13 U99-13 U100-13  
461: U122-3 U44-5 .A<7>  
462: U144-38 U107-2 U106-14 U105-14 U104-14  
462: U103-14 U102-14 U101-14 U99-14 U100-14  
462: U122-25 .A<8>  
463: U144-39 U107-5 U106-15 U105-15 U104-15  
463: U103-15 U102-15 U101-15 U99-15 U100-15  
463: U122-24 .A<9>  
464: U173-12 .AD15  
\*\*\* Only one pin in net  
\*\*\* Run Has no outputs  
465: U1-34 U2-6 .ADDR DATA<0>  
466: U1-36 U2-7 .ADDR DATA<1>

467: U1-38 U2-8 .ADDR DATA<2>  
468: U1-40 U2-9 .ADDR DATA<3>  
469: U1-2 U2-11 .ADDR DATA<4>  
470: U1-4 U2-12 .ADDR DATA<5>  
471: U1-17 U2-13 .ADDR DATA<6>  
472: U1-19 U2-14 .ADDR DATA<7>  
473: U1-21 U24-6 .ADDR DATA<8>  
474: U163-6 U218-3 U217-3 U220-3 U221-3  
474: U240-17 U219-3 .ADDR<0>  
475: U149-6 U164-4 U148-2 U218-6 U217-6  
475: U220-6 U221-6 U219-6 U240-11 .ADDR<1>  
476: U149-4 U164-7 U148-3 U218-4 U217-4  
476: U220-4 U221-4 U219-4 U240-13 .ADDR<2>  
477: U149-5 U164-9 U148-4 U218-5 U217-5  
477: U220-5 U221-5 U219-5 U240-15 .ADDR<3>  
478: RN3-3 U12-16 JB2-1 .B<0>  
479: RN3-4 U12-18 JB4-1 .B<1>  
480: RN3-5 U12-3 JB6-1 .B<2>  
481: RN3-6 U12-5 JB8-1 .B<3>  
482: U12-9 JB24-1 RN3-8 .BA<0>  
483: RN3-7 U12-7 JB28-1 .BA<1>  
484: U212-8 U211-17 .BC INSTR ENB  
485: U212-12 U211-16 .BC INSTR<0>  
486: U212-13 U211-15 .BC INSTR<1>  
487: U212-14 U211-14 .BC INSTR<2>  
488: U135-2 U212-20 .BIT CNT OVFL L  
489: U26-6 U34-3 U29-3 U31-3 .BR<0>  
490: U26-7 U34-4 U29-4 U31-4 .BR<1>

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491: U26-8 U34-7 U29-7 U31-7	.BR<2>
492: U26-9 U34-8 U29-8 U50-2 U31-8	.BR<3>
493: U26-11 U34-13 U29-13 U31-13	.BR<4>
494: U26-12 U34-14 U29-14 U31-14	.BR<5>
495: U26-13 U34-17 U29-17 U31-17	.BR<6>
496: U26-14 U34-18 U29-18 U31-18	.BR<7>
497: U167-5 U185-5 U170-5 U168-2	.BUF D<0>
498: U167-6 U185-6 U170-6 U168-5	.BUF D<1>
499: U167-7 U185-7 U170-7 U168-6	.BUF D<2>
500: U167-8 U185-8 U170-8 U168-9	.BUF D<3>
501: U152-5 U186-5 U171-5 U168-12	.BUF D<4>
502: U152-6 U186-6 U171-6 U168-15	.BUF D<5>
503: U152-7 U186-7 U171-7 U168-16	.BUF D<6>
504: U152-8 U186-8 U171-8 U168-19	.BUF D<7>
505: U144-23 U82-9 U172-9 U125-11	.BUS ACK L
506: U146-9 U162-13	.BUS CTRL
507: RN3-2 U12-14 JB26-1	.BUS ENB
508: RN8-5 U144-25 U82-6	.BUS RQST L
509: U76-12 U57-17 *** Run Has no outputs	.BUSY
510: U191-6 U176-10 U17-1	.C/P ENB H
511: U69-3 U71-18 U63-10	.CAR SENSE H
512: U91-5 U91-4 U63-9	.CAR SENSE L
513: U35-14 U73-6	.CC L
514: U75-11 U70-11 U73-11	.CC SEL<0>
515: U75-12 U70-10 U73-10	.CC SEL<1>
516: U75-13 U70-9 U73-9	.CC SEL<2>

517: U75-14 U94-17 U73-7 .CC SEL<3>  
518: U133-11 U142-9 U139-9 U142-16 U139-16  
518: .CLK IN H  
519: U133-12 U140-16 U140-9 U141-9 U141-16  
519: .CLK IN L  
520: U133-9 U186-19 U185-1 .CLK OUT H  
521: U133-10 U171-19 U170-1 .CLK OUT L  
522: U176-9 U65-11 U140-1 U141-19 U139-1  
522: U142-19 U228-4 U204-11 U204-13 U92-6  
522: U155-1 U154-19 U156-1 U153-19 U183-19  
522: U182-19 U184-1 U169-19 U132-9 .CLK-4F  
523: J176-1 U228-3 U161-2 .CLK-7R  
524: U243-11 U242-11 U204-10 U209-5 U37-11  
524: U35-31 U74-3 U69-11 U130-1 U71-11  
524: U193-10 U23-13 .CLKOR  
525: U199-9 U195-9 U200-5 U110-11 U149-14  
525: U149-13 U148-1 U218-13 U217-13 U218-14  
525: U217-14 U220-14 U221-14 U219-14 U219-13  
525: U220-13 U221-13 U204-12 .CLKORB  
526: U34-6 U18-4 .CLR CRC H  
527: U236-12 U228-11 U162-9 U176-4 .CO<1>  
528: U162-10 U176-5 U214-12 .CO<2>  
529: U69-17 U63-6 .COLLISION  
530: C156-1 J96-1 .COLLISION+  
531: C157-1 J194-1 .COLLISION-  
532: J39-1 U132-6 .COM NET INT L  
533: U112-2 U117-12 U76-10 .CRC BIT H  
534: U112-18 U136-2 .CRC BIT L  
535: U14-9 U19-6 .CRC BITS  
536: U51-9 U17-9 .CRC CLK ENB H  
537: U7-1 U18-13 .CRC ERR H

538: U137-18 U116-6 .CRC ERR<2>  
539: U138-18 U116-7 .CRC ERR<3>  
540: U117-16 U116-8 .CRC ERR<4>  
541: U73-13 U116-17 .CRC ERROR  
542: U197-4 U199-10 U200-6 .D GRANT H  
543: U127-3 RN1-9 U125-6 .D MEM RD L  
544: RN1-10 U127-4 U125-5 .D MEM WR L  
545: U7-15 RN6-8 JP2-2 U66-9 U11-2 .D SEL<0>  
546: U7-14 RN6-7 JP3-2 U85-4 .D SEL<1>  
547: U48-14 U139-14 U140-14 RN10-2 U144-14  
547: U126-11 U127-30 U107-3 U159-8 U158-40  
547: U160-8 U157-40 U147-10 U145-6 U46-3  
547: U80-3 U168-3 U106-12 U106-8 U122-11  
547: U174-13 .D<0>  
548: U48-13 U139-13 U140-13 RN10-3 U144-15  
548: U126-10 U127-29 U107-4 U159-7 U158-1  
548: U160-7 U157-1 U147-11 U145-7 U46-5  
548: U80-4 U168-4 U105-12 U105-8 U122-12  
548: .D<1>  
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549: U126-9 U127-28 U107-7 U159-6 U158-39  
549: U160-6 U157-39 U147-12 U145-8 U46-7  
549: U80-7 U168-7 U104-12 U104-8 U122-13  
549: .D<2>  
550: U48-11 U139-11 U140-11 RN10-5 U144-8  
550: U126-8 U127-27 U107-8 U159-5 U158-2  
550: U160-5 U157-2 U147-13 U145-9 U46-9  
550: U80-14 U168-8 U103-12 U103-8 U122-15  
550: .D<3>  
551: U64-14 U142-14 U141-14 RN10-6 U144-7  
551: U126-7 U127-26 U107-13 U159-4 U158-38  
551: U160-4 U157-38 U147-14 U145-10 U80-17  
551: U168-13 U102-12 U102-8 U122-16 .D<4>  
552: U64-13 U142-13 U141-13 RN10-7 U144-9  
552: U126-6 U127-23 U107-14 U159-3 U158-3  
552: U160-3 U157-3 U147-15 U145-11 U80-8  
552: U168-14 U101-12 U101-8 U122-17 .D<5>

553: U64-12 U85-7 U142-12 U141-12 RN10-8  
553: U144-10 U126-5 U127-22 U107-17 U159-2  
553: U158-37 U160-2 U157-37 U147-16 U145-12  
553: U80-13 U168-17 U100-12 U100-8 U122-18  
553: .D<6>  
  
554: U64-11 U85-9 U142-11 U141-11 RN10-9  
554: U144-13 U126-4 U127-21 U107-18 U159-1  
554: U158-4 U160-1 U157-4 U147-17 U145-13  
554: U168-18 U99-12 U99-8 U122-19 .D<7>  
  
555: U161-6 U144-30 U127-32 .DA<0>  
556: U161-8 U144-31 U127-33 .DA<1>  
557: U32-8 U144-32 U127-34 .DA<2>  
558: U32-6 U144-33 U127-35 .DA<3>  
  
559: U14-12 U38-5 U39-13 U223-7 U245-7  
559: U244-7 U224-7 .DATA INTO FIFO  
  
560: U121-8 U120-8 U94-12 U115-11 .DELAYED GATED PACKE  
561: RN6-2 U15-14 JA34-1 .DIR L  
562: U1-14 U7-6 .DISK CC L  
563: U9-12 U84-11 .DISK INT ENB  
564: U84-8 J179-1 .DISK INT L  
565: U195-6 U68-17 .DISK RQST H  
566: U213-14 U68-15 .DISK WR H  
567: U68-4 U31-15 .DISK WR OP H  
568: U131-3 U128-12 U127-15 .DMA ACK L  
569: U83-13 U133-15 U123-2 U162-12 .DMA FIFO L  
570: U146-6 U186-2 .DMA IR  
571: U146-5 U142-17 .DMA OR  
572: U146-7 U127-16 .DMA RQST L  
573: U158-36 U125-16 .DP IO RQST L  
574: JB18-1 U12-12 RN6-9 .DRIVE SEL<0>

575: U112-14 JB16-1 RN6-10	.DRIVE SEL<1>
576: U30-2 U17-4 U19-14	.DS<0>
577: U30-5 U17-5 U19-2	.DS<1>
578: U47-14 U34-11	.EMIT<1>
579: U47-13 U29-11 U50-3 U27-3	.EMIT<2>
580: U47-12 U31-11 U51-3	.EMIT<3>
581: U47-9 U68-1 U68-19	.EMIT<6>
582: U132-1 U111-9	.ENB BIT CNT H
583: U138-3 U117-3 U116-3 U137-3 U136-3	
583: U78-2 U135-6	.ENB CRC BITS H
584: U136-5 U135-1 U135-5 U63-13	.ENB FIFO BITS H
585: U114-9 U155-9 U153-9	.ENB IN FIFO<0> L
586: U114-10 U154-9 U156-9	.ENB IN FIFO<1> L
587: U110-19 U216-14 U115-8 U166-1 U191-4	
587: U191-2	.ENB MA H
588: U114-11 U121-17 U120-17	.ENB NET FIFO L
589: U194-5 U132-3	.ENB NET INT H
590: U110-15 U203-6	.ENB PL
591: U181-6 U110-16	.ENB TOP
592: U111-6 U211-1	.ENB USEC CLK H
593: U111-5 U132-4	.ENB USEC INT H
594: U146-14 U128-13 U126-18 U125-13	.END DMA INT
595: U162-2 U128-11 U126-23 U127-36 RN1-2	
595: U128-5	.EOP L
596: U138-4 U117-4 U116-4 U137-4 U119-15	
596:	.ERR CHECK
597: U195-13 J103-1	.EXT A RQST H
598: U213-1 J154-1	.EXT A WR H

599:	U193-13 U129-14	.EXT ADDR L
600:	J173-1 U195-4 R1-2	.EXT B RQST H
601:	U213-2 J174-1	.EXT B WR H
602:	U4-5 U9-2	.F<0>
603:	U4-11 U9-5	.F<1>
604:	U4-14 U9-6	.F<2>
605:	U34-9 U58-3	.FA<0>
606:	U34-12 U58-6	.FA<1>
607:	U34-15 U58-10	.FA<2>
608:	U34-16 U58-13	.FA<3>
609:	U11-6 JB34-1 RN4-4	.FAULT
610:	U29-5 U223-11 U224-11 U244-11 U245-11	
610:		.FIFO CLR L
611:	U30-9 U201-13	.FIFO IN CLK ENB H
612:	U30-6 U93-10	.FIFO OUT CLK ENB H
613:	U127-25 U145-15 U128-6	.FLOP ACK L
614:	RN5-6 U15-11 JA20-1	.FLOP INDEX L
615:	U126-21 U145-18	.FLOP INT
616:	U46-6 JA46-1 RN5-8	.FLOP RD DATA L
617:	RN5-7 U15-13 JA22-1	.FLOP RDY L
618:	U127-19 U33-10	.FLOP RQST L
619:	U15-1 U131-12 U16-13	.FLOP RW
620:	U145-23 U131-6	.FLOP SEP DATA
621:	U16-7 U16-1	.FLOP SK
622:	U15-4 RN5-4 JA42-1	.FLOP TK<0> L
623:	U15-2 RN5-3 JA10-1	.FLOP TWO SIDED L

624: U145-22 U86-2	.FLOP WINDOW
625: U16-3 JA38-1	.FLOP WR DATA L
626: U16-5 JA40-1	.FLOP WR ENB L
627: U16-2 RN5-2 JA44-1	.FLOP WR PRO L
628: U172-3 U172-4 U170-18 U171-18 U186-18	
628: U185-18 U140-18 U141-18 U142-18 U139-18	
628:	.FLUSH L
629: U173-11	.FP CLK L
*** Only one pin in net	
*** Run Has no outputs	
630: U76-13 U57-15	.FP INT
*** Run Has no outputs	
631: U57-11 U33-9	.FR
*** Run Has no outputs	
632: U33-8	.FR L
*** Only one pin in net	
633: U57-13	.FS
*** Only one pin in net	
*** Run Has no outputs	
634: U201-5 U211-19	.GATED 1MHZ
635: U94-6 U93-3	.GATED PACKET CLK H
636: U93-11 U132-13	.GATED PACKET CLK L
637: U66-5 U93-6 U49-13	.GATED PLO CLK H
638: U73-2 U88-9	.GO H
639: U127-24 U147-2	.GPIB ACK L
640: J42-1 U237-9	.GPIB ATN
641: J144-1 U237-7	.GPIB DAV
642: J48-1 U238-2	.GPIB DI<1>
643: J147-1 U238-3	.GPIB DI<2>
644: J47-1 U238-4	.GPIB DI<3>
645: J146-1 U238-5	.GPIB DI<4>

646: J38-1 U238-6	.GPIB DI<5>
647: J138-1 U238-7	.GPIB DI<6>
648: J139-1 U238-8	.GPIB DI<7>
649: J41-1 U238-9	.GPIB DI<8>
650: J46-1 U237-8	.GPIB EOI
651: J43-1 U237-4	.GPIB IFC
652: RN1-4 U147-9	.GPIB INT L
653: J143-1 U237-5	.GPIB NDAC
654: J44-1 U237-6	.GPIB NRFD
655: U238-11 U174-9	.GPIB PE
656: U147-5 U125-15	.GPIB RD
657: J141-1 U237-3	.GPIB REN
658: U127-18 U147-1	.GPIB RQST L
659: U237-1 U174-7	.GPIB SC
660: J142-1 U237-10	.GPIB SRQ
661: U199-11 J171-1 U109-18	.GRANT DMA
662: U150-12 U216-13	.HDCAR
663: U15-5 JA18-1	.HEAD LD L
664: J148-1 U216-1	.HOLD OFF L
665: U166-12 U166-5 U128-9 U23-5 U166-10	
665: U114-1 U17-2 U161-18	.ICLK-4R
666: U34-2 U30-3	.IDS<0>
667: U34-5 U30-4	.IDS<1>
668: JB10-1 RN4-3 U6-11	.INDEX
669: U129-1 J72-1 U111-1 U194-1 U28-2	
669: U13-1 U9-1	.INIT L
670: U126-13 U157-7	.INT ENB

671: U140-5 U242-2 U153-4 U223-3	.IO MDO BUF<0>
672: U139-7 U243-6 U154-6 U244-5	.IO MDO BUF<10>
673: U139-8 U243-9 U154-7 U244-6	.IO MDO BUF<11>
674: U142-5 U243-12 U154-8 U245-3	.IO MDO BUF<12>
675: U142-6 U243-15 U156-4 U245-4	.IO MDO BUF<13>
676: U142-7 U243-16 U156-5 U245-5	.IO MDO BUF<14>
677: U142-8 U243-19 U156-6 U245-6	.IO MDO BUF<15>
678: U140-6 U242-5 U153-5 U223-4	.IO MDO BUF<1>
679: U140-7 U242-6 U153-6 U223-5	.IO MDO BUF<2>
680: U140-8 U242-9 U153-7 U223-6	.IO MDO BUF<3>
681: U141-5 U242-12 U153-8 U224-3	.IO MDO BUF<4>
682: U141-6 U242-15 U155-4 U224-4	.IO MDO BUF<5>
683: U141-7 U242-16 U155-5 U224-5	.IO MDO BUF<6>
684: U141-8 U242-19 U155-6 U224-6	.IO MDO BUF<7>
685: U139-5 U243-2 U154-4 U244-3	.IO MDO BUF<8>
686: U139-6 U243-5 U154-5 U244-4	.IO MDO BUF<9>
687: U197-11 J178-1 U195-1 U109-17	.IO MEM RQST
688: U213-5 J153-1 U109-16	.IO MEM WR
689: U179-15 U115-10	.IO SEL H
690: U150-14 U164-1 U148-8 U236-14 U166-3	
690: U234-14 U235-14 U214-14	.IO SEL L
691: U216-10 J69-1 U233-1 U209-1 U230-2	
691: U87-2 U196-12 U211-7	.IOA<0>
692: U163-12 U216-11 J169-1 U233-2 U209-2	
692: U230-3 U87-5 U196-13 U211-8	.IOA<1>
693: J68-1 U233-3 U209-3 U230-4 U87-11	
693:	.IOA<2>
694: J168-1 U208-1 U230-5	.IOA<3>

695: J67-1 U208-2 U230-6 .IOA<4>  
 696: J167-1 U208-4 U230-7 .IOA<5>  
 697: J66-1 U208-6 U230-8 .IOA<6>  
 698: U232-1 U231-1 J166-1 U208-3 U230-9  
 698: U211-9 .IOA<7>  
 699: U232-19 U231-19 U230-19 .IOB BUF ENB L  
 700: U230-1 J71-1 U208-5 .IOB ENB L  
 701: U57-9 U165-4 U235-9 U167-14 U65-3  
 701: U231-2 U129-4 U52-4 U71-2 U212-4  
 701: U111-3 U196-4 U60-4 U77-15 U13-3  
 701: U9-3 U11-3 .IOB<0>  
 702: U214-8 U232-4 U85-16 .IOB<10>  
 703: U214-9 U232-5 .IOB<11>  
 704: U235-5 U232-6 .IOB<12>  
 705: U235-6 U232-7 .IOB<13>  
 706: U235-7 U232-8 .IOB<14>  
 707: U57-3 U235-8 U161-3 U232-9 .IOB<15>  
 708: U57-5 U165-5 U234-5 U167-13 U65-4  
 708: U231-3 U129-5 U52-6 U71-5 U212-5  
 708: U111-4 U196-5 U60-6 U77-1 U13-4 U9-4  
 708: U11-5 .IOB<1>  
 709: U165-12 U236-5 U234-6 U167-12 U65-7  
 709: U231-4 U129-12 U52-10 U71-6 U212-6  
 709: U111-7 U196-6 U60-10 U77-10 U13-7  
 709: U9-7 U11-7 .IOB<2>  
 710: U165-13 U236-6 U234-7 U167-11 U65-8  
 710: U231-5 U129-13 U52-12 U71-9 U212-7  
 710: U111-8 U196-7 U60-12 U77-9 U13-8  
 710: U9-8 U85-12 .IOB<3>  
 711: U150-5 U148-6 U236-7 U152-14 U65-13  
 711: U231-6 U53-4 U71-12 U212-16 U111-13  
 711: U196-16 U59-4 U13-13 U9-13 U11-12  
 711: .IOB<4>  
 712: U150-6 U25-3 U236-8 U152-13 U65-14

712: U231-7 U53-6 U71-15 U212-17 U111-14  
712: U196-17 U59-6 U13-14 U9-14 U11-14  
712: .IOB<5>  
  
713: U150-7 U25-5 U236-9 U152-12 U65-17  
713: U231-8 U53-10 U71-16 U212-18 U111-17  
713: U196-18 U59-10 U13-17 U9-17 U11-9  
713: .IOB<6>  
  
714: U57-7 U150-8 U25-4 U214-5 U152-11  
714: U161-5 U65-18 U231-9 U53-12 U71-19  
714: U212-19 U111-18 U196-19 U59-12 U13-18  
714: U9-18 U85-14 .IOB<7>  
  
715: U214-6 U232-2 U88-12 U11-16 .IOB<8>  
716: U214-7 U232-3 U11-18 .IOB<9>  
717: U152-2 U85-11 .IOD OUT FIFO  
718: U162-5 U161-17 U174-4 .IOD OUT RDY  
719: U231-18 J64-1 .IOD<0>  
720: U232-16 J58-1 .IOD<10>  
721: U232-15 J158-1 .IOD<11>  
722: U232-14 J57-1 .IOD<12>  
723: U232-13 J157-1 .IOD<13>  
724: U232-12 J56-1 .IOD<14>  
725: U232-11 J156-1 .IOD<15>  
726: U231-17 J164-1 .IOD<1>  
727: U231-16 J63-1 .IOD<2>  
728: U231-15 J163-1 .IOD<3>  
729: U231-14 J62-1 .IOD<4>  
730: U231-13 J162-1 .IOD<5>  
731: U231-12 J61-1 .IOD<6>  
732: U231-11 J161-1 .IOD<7>  
733: U232-18 J59-1 .IOD<8>

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734: U232-17 J159-1	.IOD<9>
735: U35-34 U36-9 U32-11	.J ADDR<0>
736: U35-36 U36-11 U32-13	.J ADDR<1>
737: U35-38 U36-12 U32-15	.J ADDR<2>
738: U35-40 U36-13 U32-17 U57-2	.J ADDR<3>
739: U35-2 U36-14 U55-17 U55-2	.J ADDR<4>
740: U35-4 U75-6 U55-15 U55-4	.J ADDR<5>
741: U35-17 U75-7 U55-13 U55-6	.J ADDR<6>
742: U35-19 U75-8 U55-11 U55-8	.J ADDR<7>
743: U35-21 U75-9	.J ADDR<8>
744: U35-12 U36-6	.J CMD<0>
745: U35-11 U36-7	.J CMD<1>
746: U35-9 U36-8	.J CMD<2>
747: U35-8 U56-14	.J CMD<3>
748: U1-12 U24-11	.JMP<0>
749: U1-11 U24-9	.JMP<1>
750: U1-9 U24-8	.JMP<2>
751: U1-8 U24-7	.JMP<3>
752: RN1-6 J197-1 U157-29	.KBD DATA H
753: U73-12 U69-19	.L MATCH H
754: U118-8 U168-11	.LATCH BUF D
755: U230-17 U176-13 U135-4 U211-4	.LD BIT CNT L
756: U230-22 U9-11 U28-12	.LD D CTRL 1
757: U230-23 U13-11 U25-11 U25-10 U25-9	.LD D CTRL 2
758: U230-20 U77-11	.LD DF CNTR L
759: U230-21 U23-12 U58-1 U77-14	.LD DF DATA L

760: U216-12 U115-9 U166-2 U230-16	.LD DMA ADDR L
761: U165-9 U209-15	.LD DMA CHAN L
762: U209-14 *** Only one pin in net	.LD FP INST L
763: U129-9 U209-10	.LD INT ENB L
764: U209-13 U111-11 U88-11	.LD NET CTRL L
765: U92-12 U72-9 U74-11	.LD NET CTRL REG<0>
766: U92-14 U119-9	.LD NET CTRL REG<1>
767: U209-12 U194-3	.LD NET ENB L
768: U94-5 U121-2 U120-2	.LD NET FIFO L
769: U208-14 U87-1 U130-2	.LD NET FILE L
770: U94-9 U183-1 U169-1	.LD OUT FIFO<0> H
771: U94-7 U182-1 U184-19	.LD OUT FIFO<1> H
772: U64-19 U48-1 U209-11	.LD UPROC DATA L
773: U230-18 U193-9 U211-6	.LD USEC CLK L
774: U5-8 U66-12	.LDSR
775: RN6-4 U16-12 JA2-1	.LOW CUR L
776: U130-8 U124-2 U158-8 U157-8 U44-6 776:	.M1 L
777: J54-1 U191-3	.MA EXT A
778: U176-8 U239-19 U239-1 U241-19 U241-1 778: U240-1	.MA OUT L
779: J31-1 U240-16 U240-5	.MADDR<10>
780: U240-18 J131-1 U240-3	.MADDR<11>
781: J29-1 U241-12	.MADDR<12>
782: U241-14 J129-1	.MADDR<13>
783: U241-16 J28-1	.MADDR<14>

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784: U241-18 J128-1	.MADDR<15>
785: U241-3 J27-1	.MADDR<16>
786: U241-5 J127-1	.MADDR<17>
787: U241-7 J26-1	.MADDR<18>
788: J126-1 U241-9	.MADDR<19>
789: U239-5 J36-1	.MADDR<2>
790: U239-3 J136-1	.MADDR<3>
791: U239-18 J34-1	.MADDR<4>
792: U239-16 J134-1	.MADDR<5>
793: U239-14 J33-1	.MADDR<6>
794: U239-12 J133-1	.MADDR<7>
795: J32-1 U240-12 U240-9	.MADDR<8>
796: J132-1 U240-14 U240-7	.MADDR<9>
797: U7-3 U90-2 U27-12	.MATCH H
798: U170-14 U169-15 J14-1 U223-21	.MDI<0>
799: U185-12 U184-13 J8-1 U244-19	.MDI<10>
800: U185-11 U184-12 J108-1 U244-18	.MDI<11>
801: U186-14 U184-11 J7-1 U245-21	.MDI<12>
802: U186-13 U182-15 J107-1 U245-20	.MDI<13>
803: U186-12 U182-14 J6-1 U245-19	.MDI<14>
804: U186-11 U182-13 J106-1 U245-18	.MDI<15>
805: U170-13 U169-14 J114-1 U223-20	.MDI<1>
806: U170-12 U169-13 J13-1 U223-19	.MDI<2>
807: U170-11 U169-12 J113-1 U223-18	.MDI<3>
808: U171-14 U169-11 J12-1 U224-21	.MDI<4>
809: U171-13 U183-15 J112-1 U224-20	.MDI<5>

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810: U171-12 U183-14 J11-1 U224-19	.MDI<6>
811: U171-11 U183-13 J111-1 U224-18	.MDI<7>
812: U185-14 U184-15 J9-1 U244-21	.MDI<8>
813: U185-13 U184-14 J109-1 U244-20	.MDI<9>
814: U242-3 J24-1	.MDO<0>
815: J18-1 U243-7	.MDO<10>
816: J118-1 U243-8	.MDO<11>
817: J17-1 U243-13	.MDO<12>
818: J117-1 U243-14	.MDO<13>
819: J16-1 U243-17	.MDO<14>
820: J116-1 U243-18	.MDO<15>
821: U242-4 J124-1	.MDO<1>
822: U242-7 J23-1	.MDO<2>
823: U242-8 J123-1	.MDO<3>
824: U242-13 J22-1	.MDO<4>
825: U242-14 J122-1	.MDO<5>
826: U242-17 J21-1	.MDO<6>
827: U242-18 J121-1	.MDO<7>
828: J19-1 U243-3	.MDO<8>
829: J119-1 U243-4	.MDO<9>
830: U145-26 U131-1 U175-10	.MFM
831: U92-15 U112-11	.NET DMA RQST L
832: U69-8 U120-10 U120-1 U121-10	.NET FIFO IR
833: U69-7 U121-23 U191-9 U113-1 U121-14	.NET FIFO OR
834: U72-15 U112-17 U132-2	.NET INT H
835: U112-3 U88-13	.NET INT L

836: U73-14 U69-18 U76-3 .NET MATCH H  
 837: R2-2 U191-12 U199-14 U177-17 .NET RQST H  
 838: U199-13 U177-15 .NET WR H  
 839: R19-1 J78-1 U229-5 U229-9 U229-6 .NET XMIT+  
 839: U229-11 .NET XMIT+  
 \*\*\* Run has multiple outputs  
 840: R20-1 J79-1 U229-2 U229-15 U229-14 .NET XMIT-  
 840: U229-3 .NET XMIT-  
 \*\*\* Run has multiple outputs  
 841: U56-6 U92-4 .O SEL ENB  
 842: U133-14 U123-14 .ODD  
 843: U66-2 U11-11 JB22-1 RN4-6 .ON CYLINDER  
 844: RN8-6 U144-20 U157-36 U125-4 U44-4 .P IO RQST L  
 844:  
 845: RN8-7 U144-19 U124-4 U125-3 .P MEM RQST L  
 846: U28-1 U9-9 .P RESET L  
 847: U144-22 RN8-9 U130-5 U130-4 U127-2 .P WR L  
 847:  
 848: U95-9 U93-1 U79-3 U135-3 .PACKET CLK H  
 849: U95-12 U93-12 U79-11 U78-1 .PACKET CLK L  
 850: U121-7 U120-7 U76-9 U95-7 U79-12 .PACKET DATA H  
 850: U78-9  
 851: U218-16 U214-19 .PALR7  
 852: U64-17 U128-3 U126-19 .PERQ INT  
 853: U148-9 U150-15 .PHDCAR  
 854: U69-13 U79-6 U93-13 U93-2 U71-17 .PIP H  
 854:  
 855: U128-10 U223-2 U224-2 U244-2 U245-2 .PL DISK  
 855:  
 856: J104-1 U204-6 .PL EXT A

857: J74-1 U228-6 .PL EXT B  
 858: U204-4 U155-19 U154-1 U156-19 U153-1  
 858: .PL NET  
 859: U204-8 U142-1 U139-19 U141-1 U140-19  
 859: .PL UPROC  
 860: U14-11 U51-11 U8-11 U8-3 U14-3 U93-4  
 860: U49-1 U90-11 U134-11 U93-9 U201-12  
 860: .PLO CLK H  
 861: U38-8 U28-10 U40-7 U17-10 U90-10  
 861: .PLO CLK L  
 862: U27-9 U49-3 .PREMATCH H  
 863: U66-4 U66-13 U49-9 .PROC CLK H  
 864: U6-3 U3-11 U1-31 U30-1 U49-7 .PROC CLK L  
 865: U122-20 U125-17 .PROM CS L  
 866: U173-13 U173-10 U152-19 U167-19 U64-1  
 866: U48-19 U124-10 U124-12 RN2-2 U124-1  
 866: U158-6 U159-14 U159-11 U159-16 U81-6  
 866: U209-6 U233-6 U134-13 U134-10 .PU1  
 867: RN2-4 U123-10 U123-3 U118-10 U118-4  
 867: U118-1 U118-13 U194-12 U194-10 U123-7  
 867: U170-19 U171-1 U186-1 U185-19 U143-6  
 867: U207-12 U207-5 U207-10 .PU3  
 868: U213-3 U199-1 RN2-5 U180-1 U178-1  
 868: U165-1 U150-9 U150-4 U215-1 .PU4  
 869: U6-4 RN2-6 U1-32 U1-15 U47-6 U7-2  
 869: U28-9 U27-10 U40-9 U27-13 U14-13  
 869: U14-10 U38-9 U51-10 U51-13 U14-1  
 869: U14-4 U18-2 U50-12 U27-4 U50-10 U49-10  
 869: U49-12 U49-11 U202-13 U6-10 U6-13  
 869: U88-4 U67-4 U67-10 U51-4 U67-2 U88-2  
 869: U67-12 .PU5  
 870: U74-1 U35-15 U35-32 U73-4 U87-14  
 870: U177-19 U76-2 U113-15 U113-2 U137-7  
 870: U138-7 U215-12 U215-10 RN2-7 U202-4  
 870: U202-2 U198-14 U198-12 U113-14 U113-10  
 870: U134-2 U134-4 U74-10 U119-1 U79-13  
 870: U79-10 U212-15 U196-15 .PU6  
 871: U76-5 U198-4 U135-10 U88-10 RN2-8

871: U63-5 U63-11 U63-3	.PU7
872: U214-3 U240-4 U219-10	.R<10>
873: U214-4 U240-2 U219-11	.R<11>
874: U235-11 U220-7 U241-8	.R<12>
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892: U197-7 U199-7 U178-12 U200-3 U179-11	
892:	.RA<3>
893: U106-11 U105-11 U104-11 U103-11 U102-11	
893: U101-11 U99-11 U100-11 U125-18	.RAM CS L
894: U106-9 U105-9 U104-9 U103-9 U102-9	
894: U101-9 U99-9 U100-9 U125-19	.RAM WE L

895: U70-12 U111-16	.RCV ALL
896: U134-6 U95-11	.RCV CLK H
897: U134-5 U113-13 U95-14	.RCV CLK L
898: R21-2 U206-11 U63-4	.RCV COLLISION
899: U113-7 U95-5	.RCV DATA
900: U226-11 R23-2 U94-2 U113-11 U202-3	
900: U198-13 U63-12	.RCV DATA OUT
901: U176-3 U42-1	.RCV EDGE DET
902: U215-9 U96-1	.RCV FLOP
903: J89-1 C140-2	.RCV+
904: J91-1 C154-2	.RCV-
905: U230-14 U212-9 U211-3	.RD BIT CNT L
906: JB48-1 U8-6 R32-2	.RD DATA +
907: U8-7 JB49-1 R32-1	.RD DATA -
908: U38-2 U38-1 U8-5	.RD DATA H
909: U233-12 U11-1 U11-19 U85-1 U67-13	
909: U67-1 U51-1 U88-1	.RD DISK STAT L
910: U233-14 *** Only one pin in net	.RD FP RESULT L
911: U57-19 U233-15	.RD FP STAT L
912: JB36-1 U32-16 RN6-6	.RD GATE
913: U146-11 RN8-8 U144-21 U126-3 U127-1	
913: U159-22 U158-32 U160-22 U157-32 U145-2	
913: U23-2 U125-2	.RD L
914: U233-13 U72-1 U71-1	.RD NET STAT L
915: U152-16 U167-16 U152-9 U167-9 U126-20	
915: U233-11	.RD UPROC DATA L
916: U161-19 U233-10	.RD UPROC STAT L
917: U230-15 U196-9 U211-5	.RD USEC CLK L

918: U6-1 U3-1 U28-3 U68-18 U29-1 U28-13  
918: U49-15 U50-4 U28-4 U49-14 .RESET D L  
  
919: U138-5 U117-5 U116-5 U137-5 U112-15  
919: U119-5 .RESET FIFO & CRC H  
  
920: U155-18 U154-18 U156-18 U153-18 U177-18  
920: U169-18 U183-18 U182-18 U184-18 U121-11  
920: U120-11 U112-5 U176-12 U211-2 .RESET FIFO & CRC L  
  
921: U127-13 U145-1 U129-11 .RESET H  
  
922: U172-2 U152-18 U167-18 U64-18 U48-18  
922: U144-26 U158-21 U157-21 U147-19 U80-1  
922: U129-10 U174-15 .RESET L  
  
923: U92-5 U91-9 U91-10 U78-4 U112-16  
923: .RESET NET H  
  
924: U74-4 U37-1 U111-15 U112-4 .RESET NET L  
  
925: J87-1 U190-4 .RS232 CD A  
  
926: U205-4 J193-1 .RS232 CD B  
  
927: J86-1 U190-1 .RS232 CTS A  
  
928: U205-1 J192-1 .RS232 CTS B  
  
929: U207-8 J82-1 .RS232 DTR A  
  
930: J188-1 U189-8 .RS232 DTR B  
  
931: J182-1 U190-13 .RS232 RC IN A  
  
932: U205-13 J196-1 .RS232 RC IN B  
  
933: J84-1 U190-10 .RS232 RD A  
  
934: U205-10 J191-1 .RS232 RD B  
  
935: U143-13 U143-12 U158-10 .RS232 RQST L  
  
936: U207-6 J184-1 .RS232 RTS A  
  
937: J189-1 U189-6 .RS232 RTS B  
  
938: U188-10 J83-1 .RS232 TC IN A  
  
939: U188-13 J186-1 .RS232 TC IN B

110006.wlist from [Ed] Printed 18 Jan 85 17:13:26

940: U207-11 J181-1	.RS232 TC OUT A
941: J187-1 U189-11	.RS232 TC OUT B
942: U207-3 J183-1	.RS232 TD A
943: J88-1 U189-3	.RS232 TD B
944: U110-12 U109-5 U179-1	.RW
945: U180-9 U114-5	.S CLK 1
946: U178-9 U23-6 U114-6 U228-9 *** Run has multiple outputs	.S CLK 3
947: JB14-1 RN4-2 U134-12	.SECTOR CLK
948: U33-13 U11-8 JB32-1 RN4-5	.SEEK ERR
949: U80-11 U81-9	.SEL CLK CTRL L
950: U23-1 U23-10 U81-7	.SEL CLK DATA L
951: U159-21 U133-4	.SEL CTC A L
952: U160-21 U133-5	.SEL CTC B L
953: U172-1 U81-11	.SEL DMA FLUSH L
954: U127-11 U44-12	.SEL DMA L
955: U83-5 U81-12	.SEL DMA START L
956: U145-4 U44-13	.SEL FLOPPY L
957: U147-3 U44-15	.SEL GPIB L
958: U126-1 U44-9	.SEL INT L
959: U64-16 U48-16 U124-13 U64-9 U48-9 959: U81-15	.SEL IOD RD L
960: U85-19 U81-13	.SEL IOD STAT L
961: U83-12 U152-1 U167-1 U81-14	.SEL IOD WR L
962: U172-13 U44-14	.SEL SIO A L
963: U157-35 U44-11	.SEL SIO B L
964: U173-4 U196-8 U211-12	.SEL USEC CLK L

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965: U15-3 JA14-1	.SIDE SEL L
966: U127-14 U172-12 U143-14	.SIO ACK L
967: U158-7 U157-6	.SIO INT ENB
968: U127-17 U143-9	.SIO RQST L
969: U37-2 U75-1 U36-1 U56-1	.SM ADDR<0>
970: U37-5 U75-2 U36-2 U56-2	.SM ADDR<1>
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973: U37-12 U75-5 U36-5 U56-5	.SM ADDR<4>
974: U37-15 U75-16 U36-16 U56-16	.SM ADDR<5>
975: U37-16 U75-17 U36-17 U56-17	.SM ADDR<6>
976: U37-19 U75-18 U36-18 U56-18	.SM ADDR<7>
977: U74-5 U75-19 U36-19 U56-19	.SM ADDR<8>
978: U4-7 U3-3 U25-1 U25-2	.SMA<0>
979: U4-9 U3-4 U25-13	.SMA<1>
980: U3-2 U26-1 U5-1 U24-1 U2-1	.SMD ADDR<0>
981: U3-5 U26-2 U5-2 U24-2 U2-2	.SMD ADDR<1>
982: U3-6 U26-3 U5-3 U24-3 U2-3	.SMD ADDR<2>
983: U3-9 U26-4 U5-4 U24-4 U2-4	.SMD ADDR<3>
984: U3-12 U26-5 U5-5 U24-5 U2-5	.SMD ADDR<4>
985: U3-15 U26-16 U5-16 U24-16 U2-16	.SMD ADDR<5>
986: U3-16 U26-17 U5-17 U24-17 U2-17	.SMD ADDR<6>
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988: U6-5 U5-19 U24-19 U2-19 U26-19	.SMD ADDR<8>
989: U158-26 U187-13	.SPEAK DATA IN
990: C126-2 J81-1	.SPEAKER

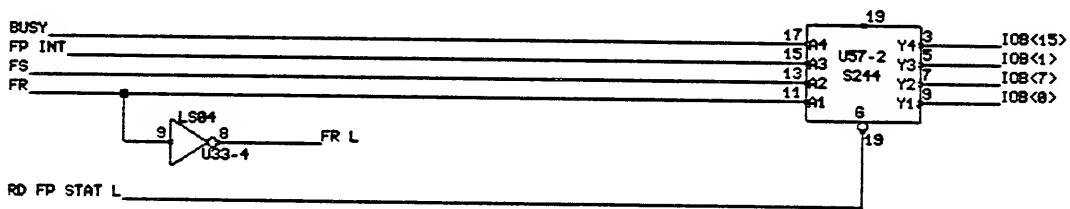
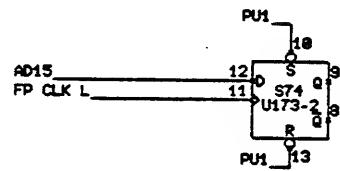
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991: U112-12 U187-14 .SPEECH CLK  
992: U143-11 U143-10 U158-30 .SPEECH RQST L  
993: U143-2 U174-5 .SPEECH SEL L  
994: U115-12 U119-2 .STEP CRC H  
995: RN6-3 U15-12 JA36-1 .STEP L  
996: U40-13 U19-4 U19-12 .SYNC BITS  
997: U79-2 U78-12 .SYNC L  
998: U7-12 U9-15 .T BIT  
999: U7-13 U9-19 .T2 BIT  
1000: R5-1 J92-1 C103-1 .TABLET CLK  
1001: R4-2 U112-13 J93-1 .TABLET DATA L  
1002: U192-12 .TC IN B  
\*\*\* Only one pin in net  
\*\*\* Run Has no outputs  
1003: U80-18 U23-8 .TESTCLK  
1004: U166-6 U223-17 U224-17 U244-17 U245-17  
1004: U223-13 U224-13 U244-13 U245-13 .TOP DISK  
1005: U181-12 J4-1 .TOP EXT A L  
1006: J73-1 U181-13 .TOP EXT B L  
1007: U166-8 U169-9 U183-9 U182-9 U184-9  
1007: U169-16 U183-16 U182-16 U184-16 .TOP NET  
1008: U166-11 U186-16 U185-16 U171-16 U170-16  
1008: U170-9 U171-9 U186-9 U185-9 .TOP UPROC  
1009: U73-1 U111-12 .TRANSMIT H  
1010: U118-3 U118-11 U124-11 U46-16 U124-3  
1010: U127-12 U159-18 U159-15 U159-9 U160-18  
1010: U160-15 U160-9 U147-18 .TZ CLK  
1011: U90-3 JB12-1 RN4-7 U85-6 U67-11 .UNIT READY  
1012: U16-9 JA26-1 .UNIT SEL L  
1013: U200-10 U68-16 .UNLD DISK RQST L

1014: U200-12 J137-1 U193-12	.UNLD EXT A RQST L
1015: U200-13 J37-1	.UNLD EXT B RQST L
1016: U92-11 U155-16 U154-16 U156-16 U153-16	
1016:	.UNLD IN FIFO L
1017: U92-13 U121-13 U120-13	.UNLD NET FIFO L
1018: U201-3 U177-16	.UNLD NET RQST L
1019: U200-9 U194-13	.UNLD UPROC RQST L
1020: U162-4 U129-2	.UPROC ENB
1021: U162-6 J53-1	.UPROC INT L
1022: U161-15 U128-1 U85-13 U83-9	.UPROC RDY
1023: U83-10 U129-7	.UPROC RDY ENB
1024: U83-8 J172-1	.UPROC RDY INT L
1025: U195-3 U194-9	.UPROC RQST H
1026: U213-13 U133-13 U146-1 U174-6	.UPROC WR H
1027: U71-14 U173-6 U132-5	.USEC CLK OVFL H
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1030: U181-2 U180-5 U178-7 U179-6	.WA<2>
1031: U181-3 U180-12 U178-10 U179-10	.WA<3>
1032: U79-4 U119-10	.WAIT FOR SYNC H
1033: U5-11 U27-2	.WAIT H
1034: U145-21 U175-13 U228-13	.WCLK
1035: U149-15 U216-2	.WCNT L
1036: U216-4 U221-15	.WHI L
1037: U218-15 U217-15 U216-3 U220-15 U219-15	
1037:	.WLO L
1038: U8-10 JB46-1 U8-2 JB42-1	.WR CLK +

1039: U8-9 JB45-1 U8-1 JB43-1 .WR CLK -  
1040: U40-1 U224-22 U244-22 U245-22 U223-22  
1040: .WR DATA  
1041: JB39-1 U10-3 U10-4 .WR DATA +  
1042: JB40-1 U10-1 U10-2 .WR DATA -  
1043: JB30-1 U32-18 RN6-5 .WR GATE  
1044: U146-10 U130-6 U126-2 U159-23 U160-23  
1044: U147-4 U145-3 U125-1 U23-9 .WR L  
1045: U148-5 U216-5 .WREG L  
1046: U114-12 U55-1 U57-1 .X CONST ENB L  
1047: U73-15 U57-12 U154-15 U153-15 U177-4  
1047: U184-4 U169-4 U121-21 U54-3 U121-3  
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1049: .X MUX<2>  
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1050: U121-18 U54-9 U121-6 U72-11 U119-11  
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1051: U54-12 U120-21 U120-3 U72-13 U119-13  
1051: .X MUX<4>  
1052: U55-16 U156-15 U155-15 U183-4 U182-4  
1052: U54-14 U120-20 U120-4 U72-14 U119-14  
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1054: U54-18 U120-18 U120-6 U74-12 .X MUX<7>  
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1056: U56-13 U114-13 .X SEL<1>

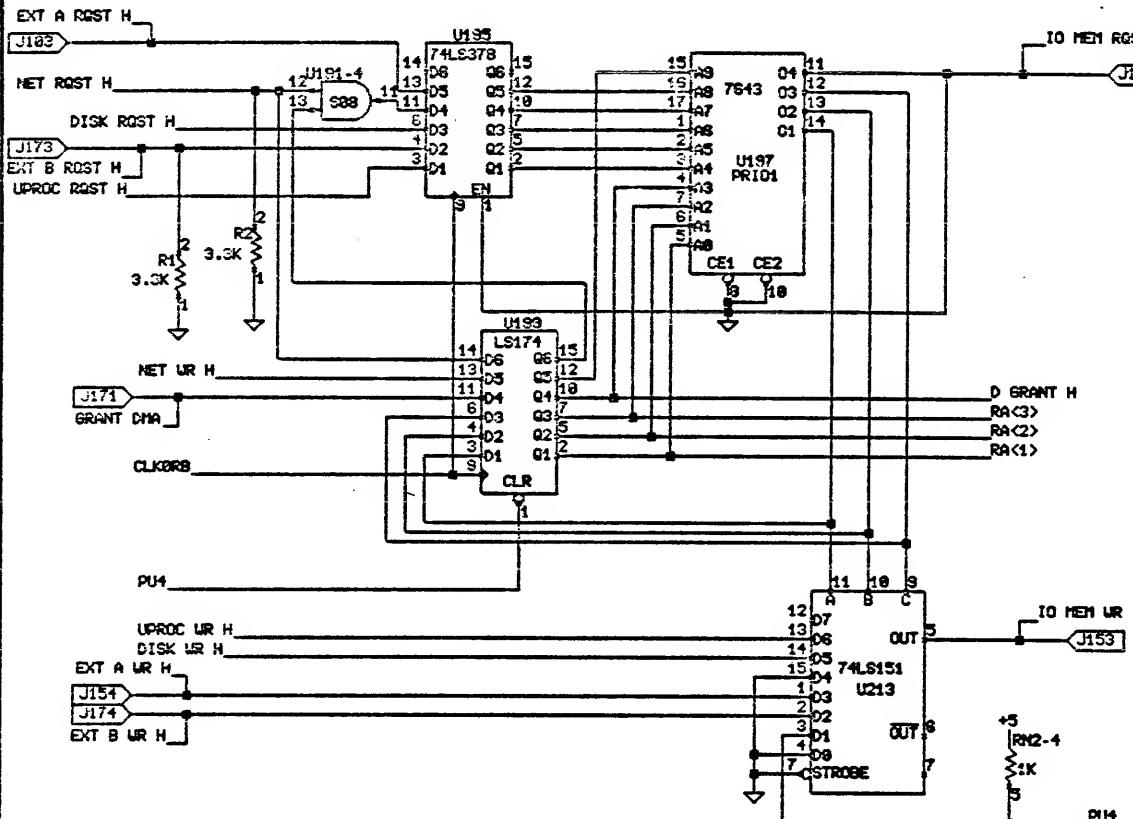
1057: R17-2 R18-1 U198-6	.XMIT BIT STREAM
1058: U95-1 U119-7	.XMIT CLK SEL H
1059: U74-13 U78-13	.XMIT DONE L
1060: U121-22 U120-22 U136-4 U95-6	.XMIT FIFO DATA H
1061: U69-14 U121-9 U198-15 U135-13 U74-9	
1061: U78-3	.XMIT H
1062: U130-12 U74-8	.XMIT L
1063: U32-9 U52-5 U54-2	.Y MUX<0>
1064: U32-7 U52-7 U54-4	.Y MUX<1>
1065: U32-5 U52-9 U54-6	.Y MUX<2>
1066: U32-3 U52-11 U54-8	.Y MUX<3>
1067: U55-3 U53-5 U54-11	.Y MUX<4>
1068: U55-5 U53-7 U54-13	.Y MUX<5>
1069: U55-7 U53-9 U54-15	.Y MUX<6>
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1071: U56-7 U92-1 U87-3	.Y SEL<0>
1072: U56-8 U92-2 U87-6	.Y SEL<1>
1073: U56-9 U92-3 U87-10	.Y SEL<2>
1074: U56-11 U32-19 U55-19 U87-13	.Y SEL<3>
1075: U46-18 U144-6 R3-2 U158-20 U157-20	
1075:	.Z CLK
1076: RN8-4 U144-16 U126-17 U158-5 U157-5	
1076:	.Z80 INT L
1077: RN8-2 U144-24 U127-6	.Z80 WAIT L



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	RLY/RA	CHNL	HDR	DATA
	RA/WA	CHANNEL	ADDR	ADDR
Unused	7	-	-	-
Uproc	6	1	14	15
Disk	5	2	12	13
Net Xmit	4	3	10	11
Ext A	3	4	6	7
Ext B	2	5	4	5
Net Rev	1	6	2	3
Idle	0	7	/load RAM	

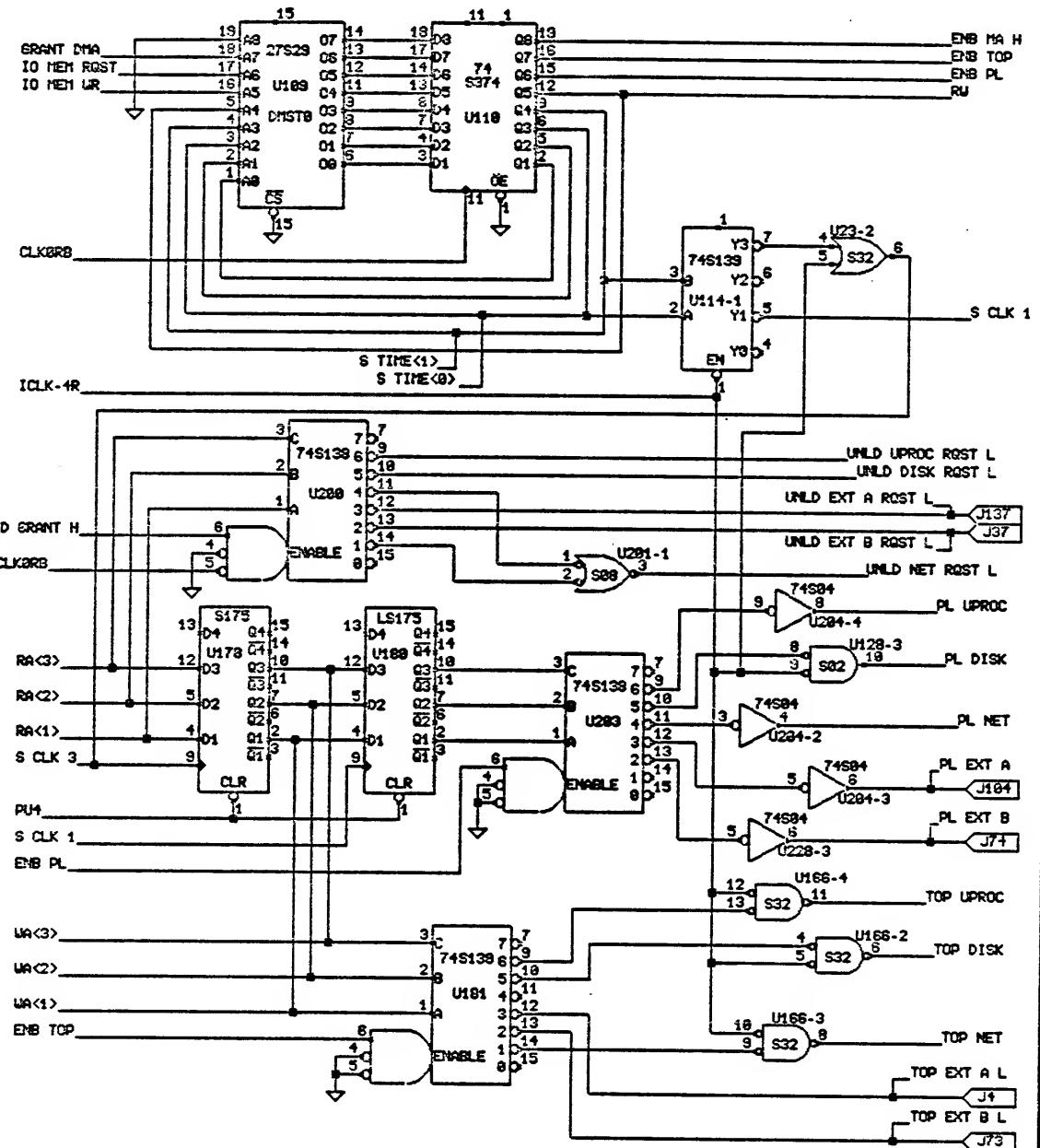
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TITLE  
DMA PRIORITY ENCODER

e82.db

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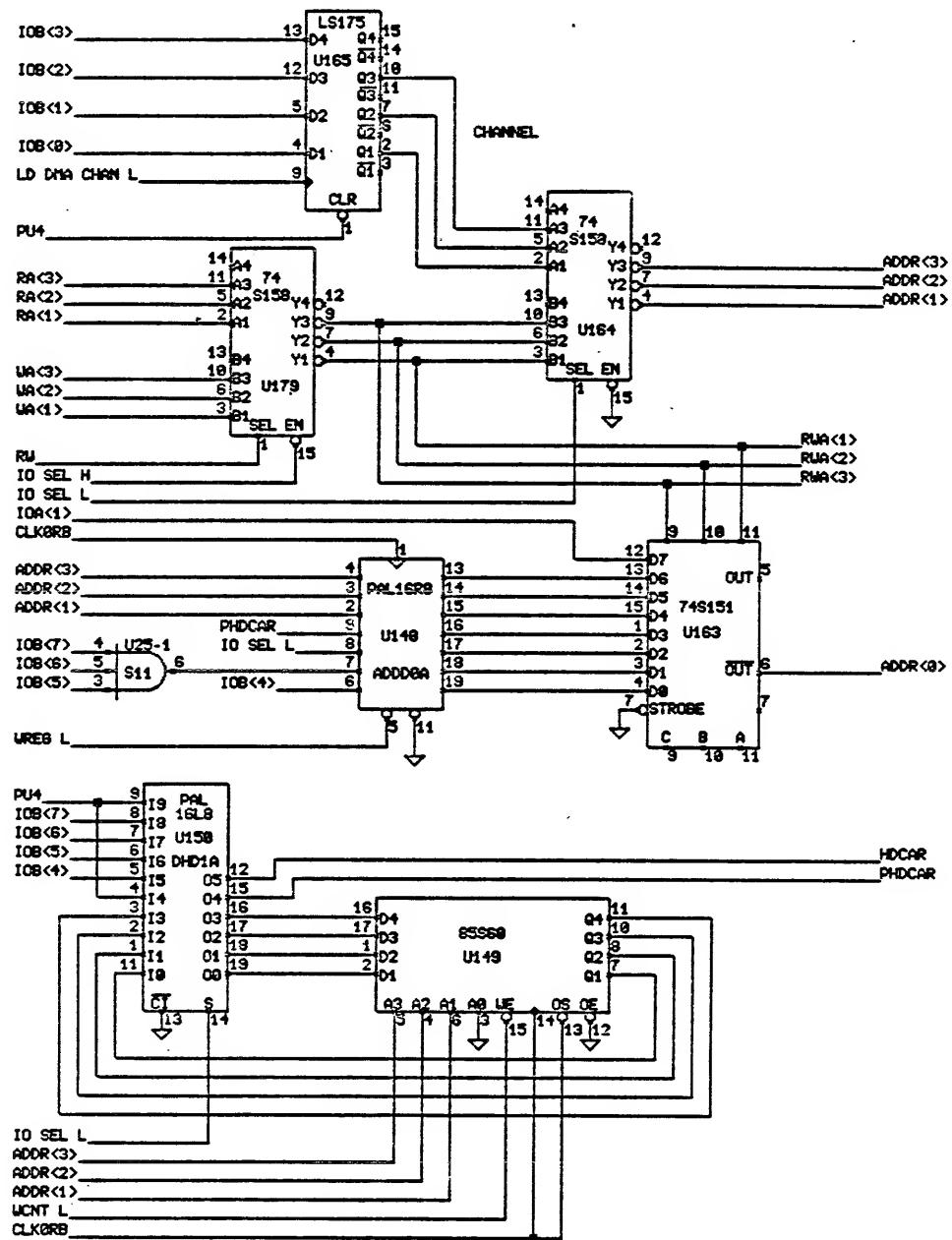
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TITLE DMA STATE MACHINE

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e83.db

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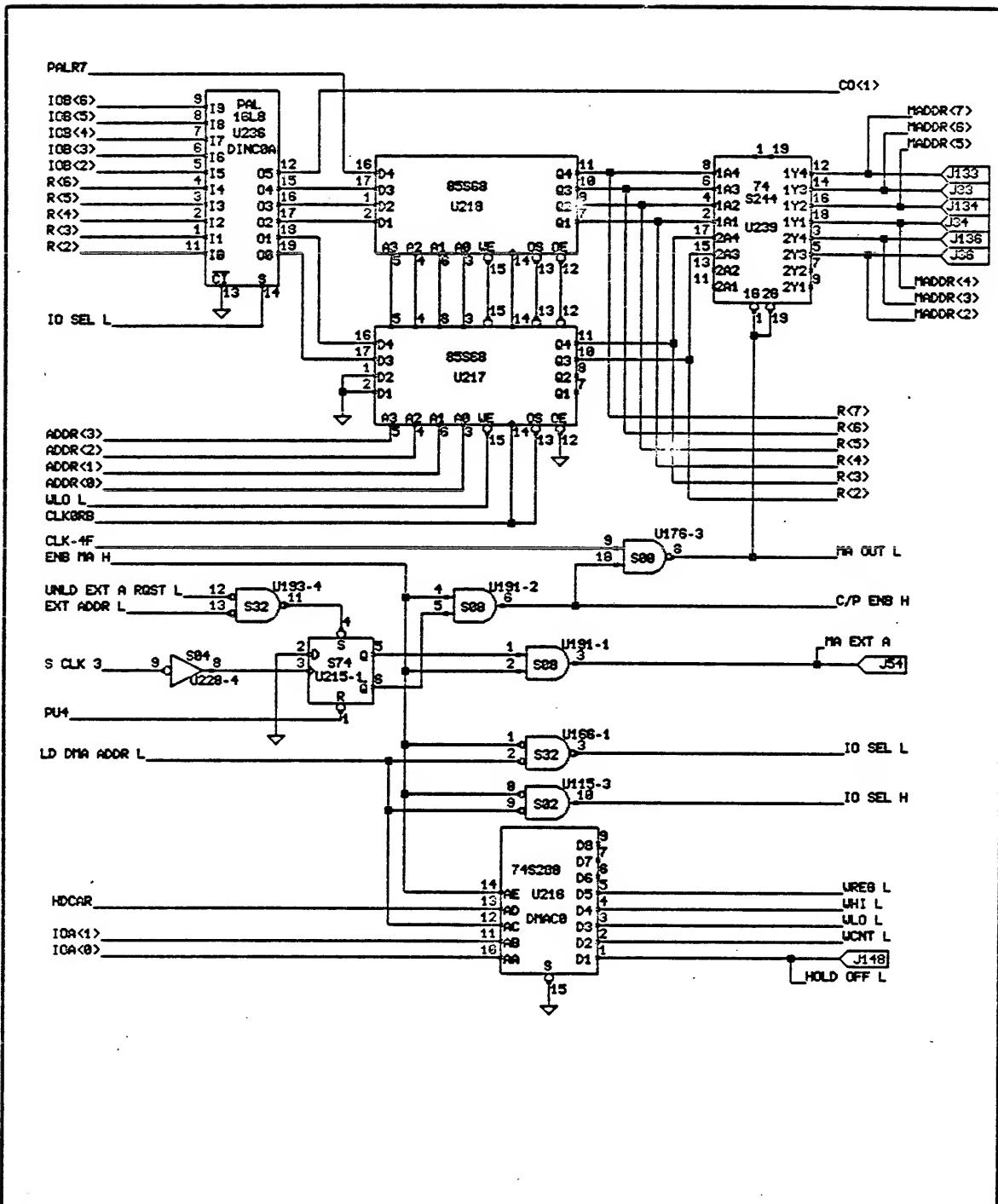


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TITLE RAM ADDRESSING

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	UPDATED	30 Jan 85	STECK	PROJ :	NON ETHERNET I/O BOARD (NIO)			PAGE 4 OF 44



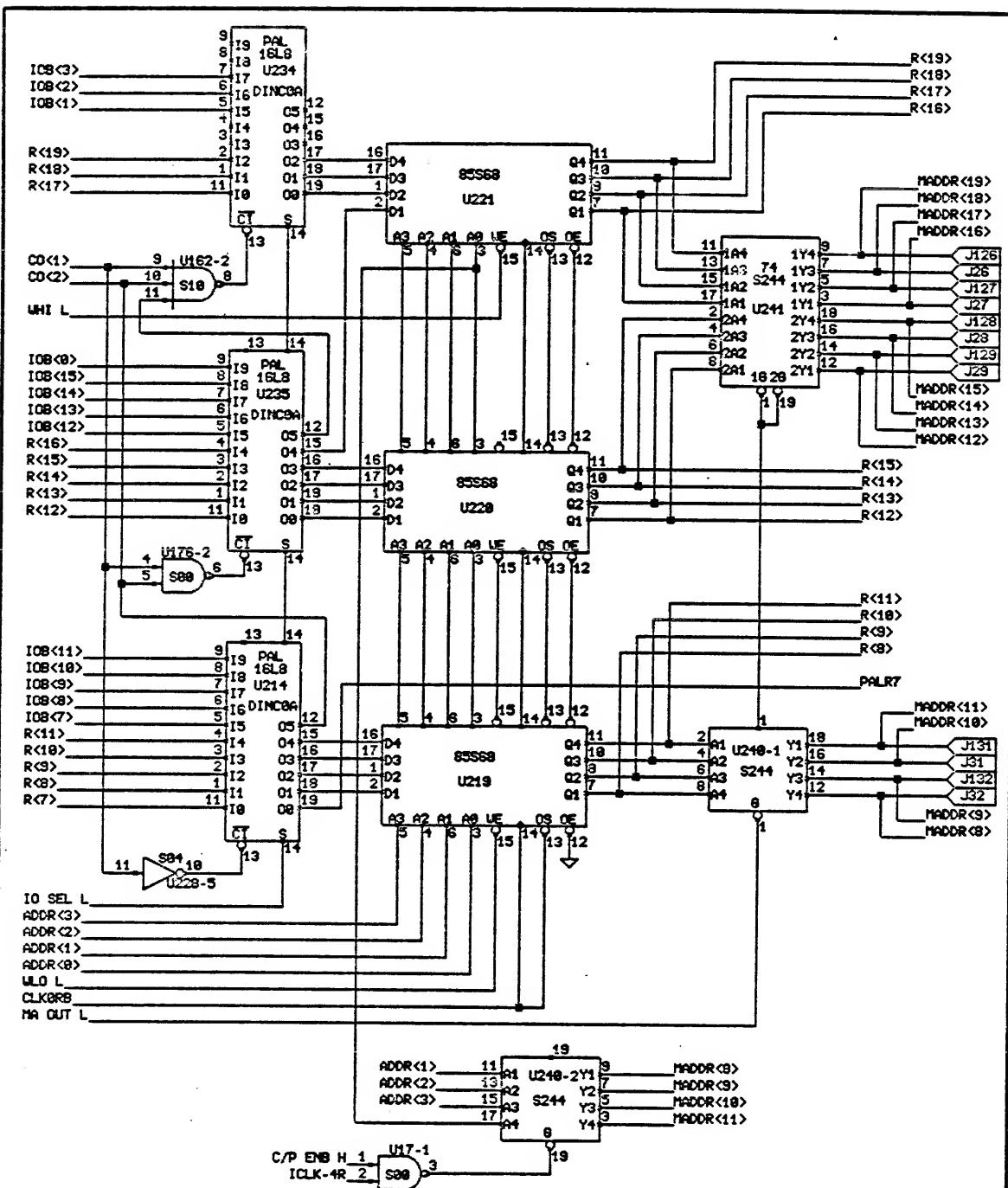
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TITLE DMA ADDRESS RAM

•85.♦

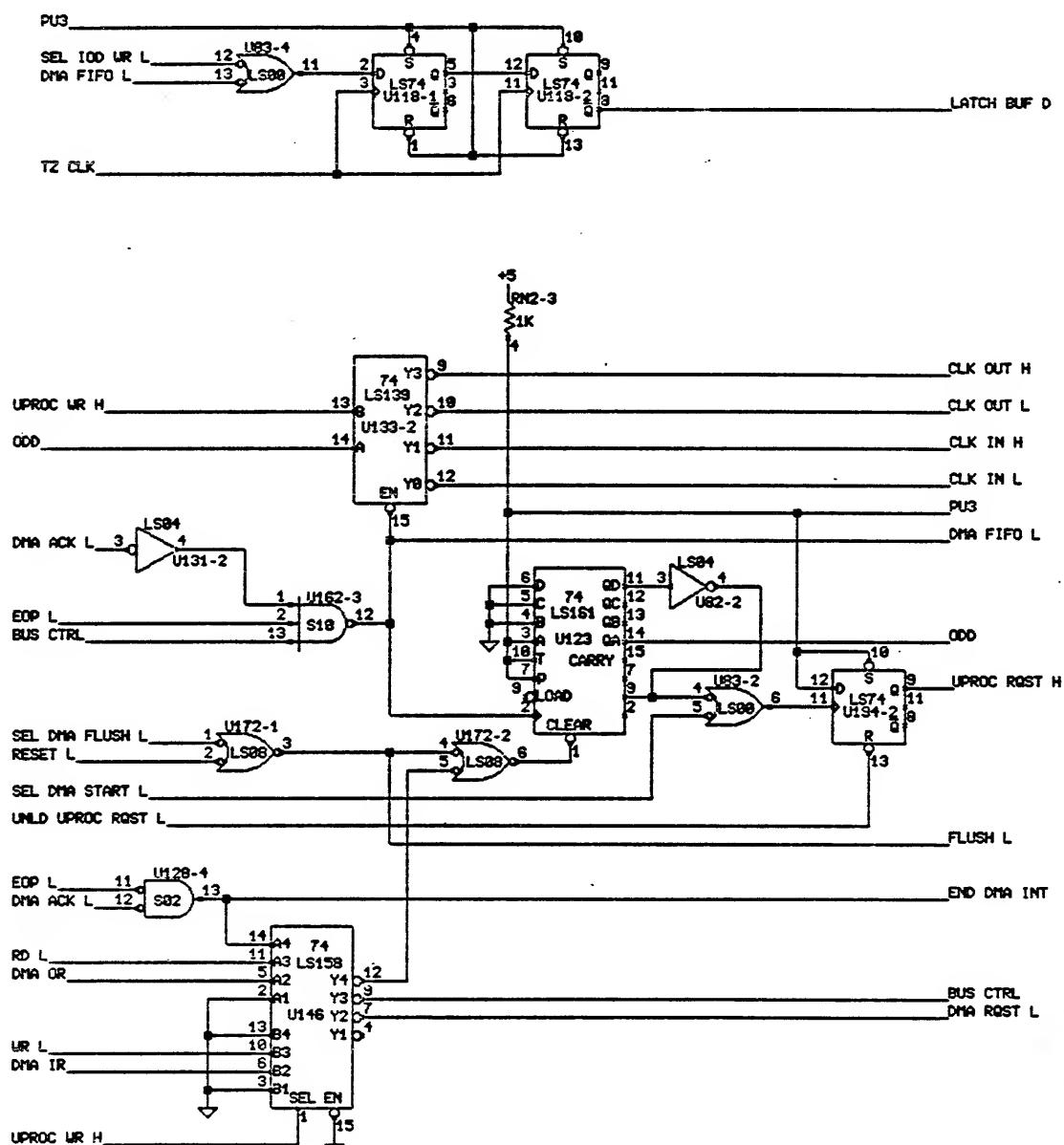
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TITLE DMA ADDRESS RAM e86.dp

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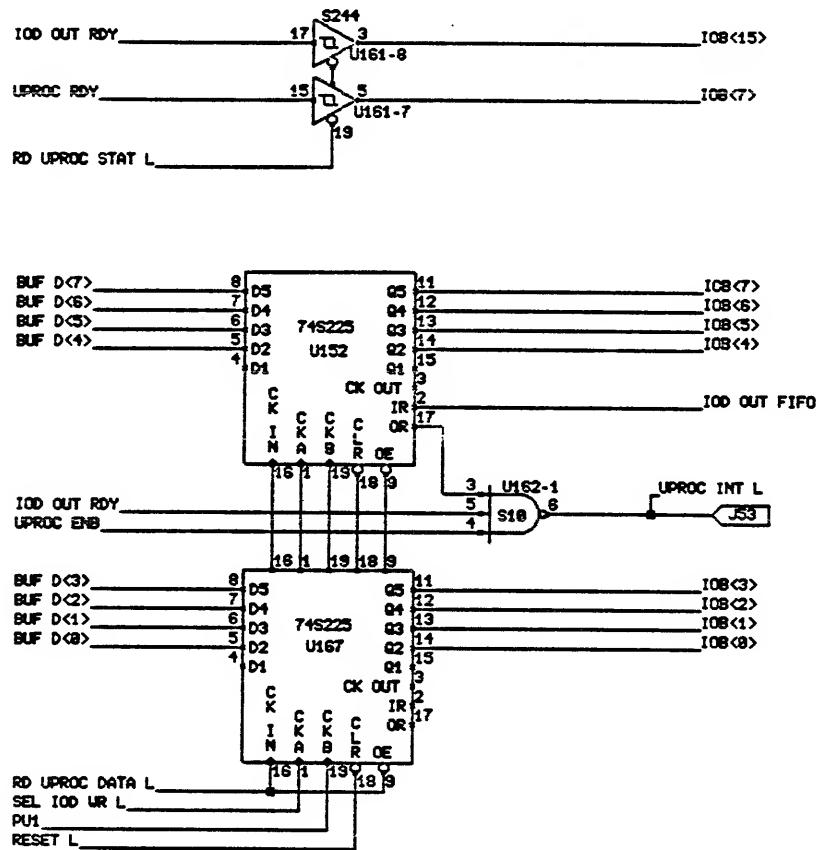


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TITLE UPROC DMA CHANNEL CONTROL

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		UPDATED	FEB-23-84	STECK	PROJ :	NON ETHERNET I/O BOARD (MIO)	PAGE	7 OF 44	



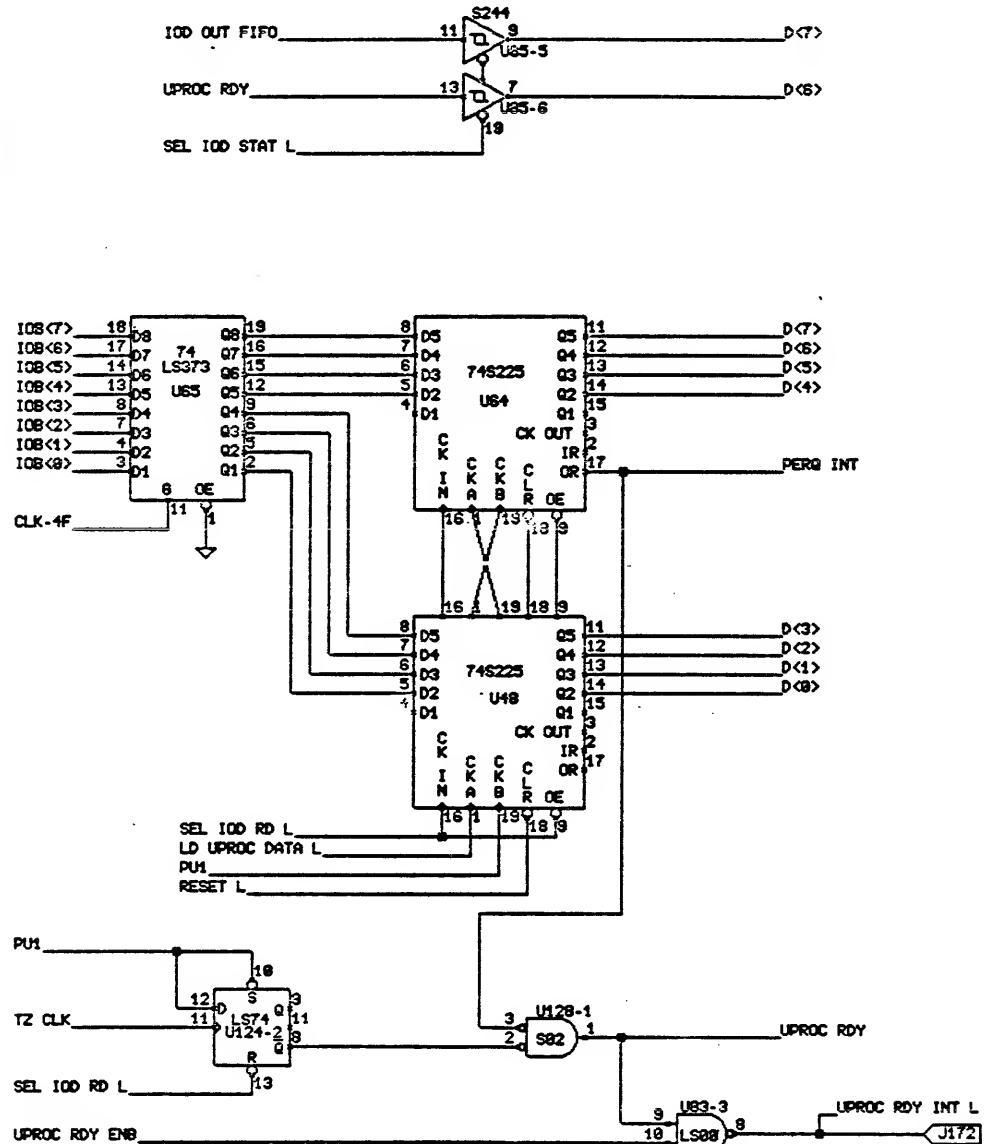
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**TITLE** 280 I/O BUS INPUT

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<b>PERQ</b>	DESIGNED	UCH	SIZE	CODE	IDENTIFICATION	VAR	REV	
	DRAWN	13 Sep 82 16:15:31	SBokse	A	1 1	9 1 9 8 -	0 2	T
	UPDATED	FEB-23-84	STECK	PROJ :	NON ETHERNET I/O BOARD (MIO)		PAGE 3 OF 44	



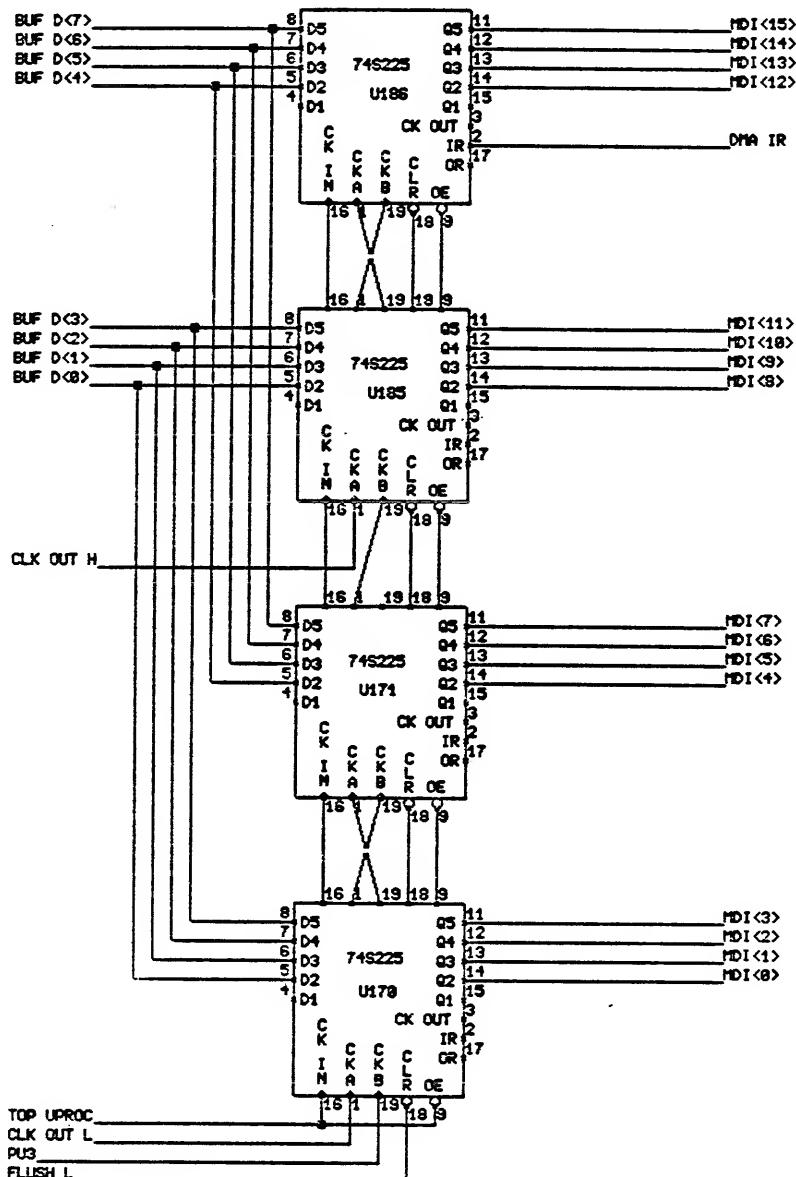
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TITLE 286 I/O BUS INPUT

#09.dp

DESIGNED	UCH	SIZE	CODE	IDENTIFICATION	VAR	REV
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UPDATED FEB-23-84	STECK	PROJ :	NON ETHERNET I/O BOARD (NIO)		PAGE 9 OF 14	



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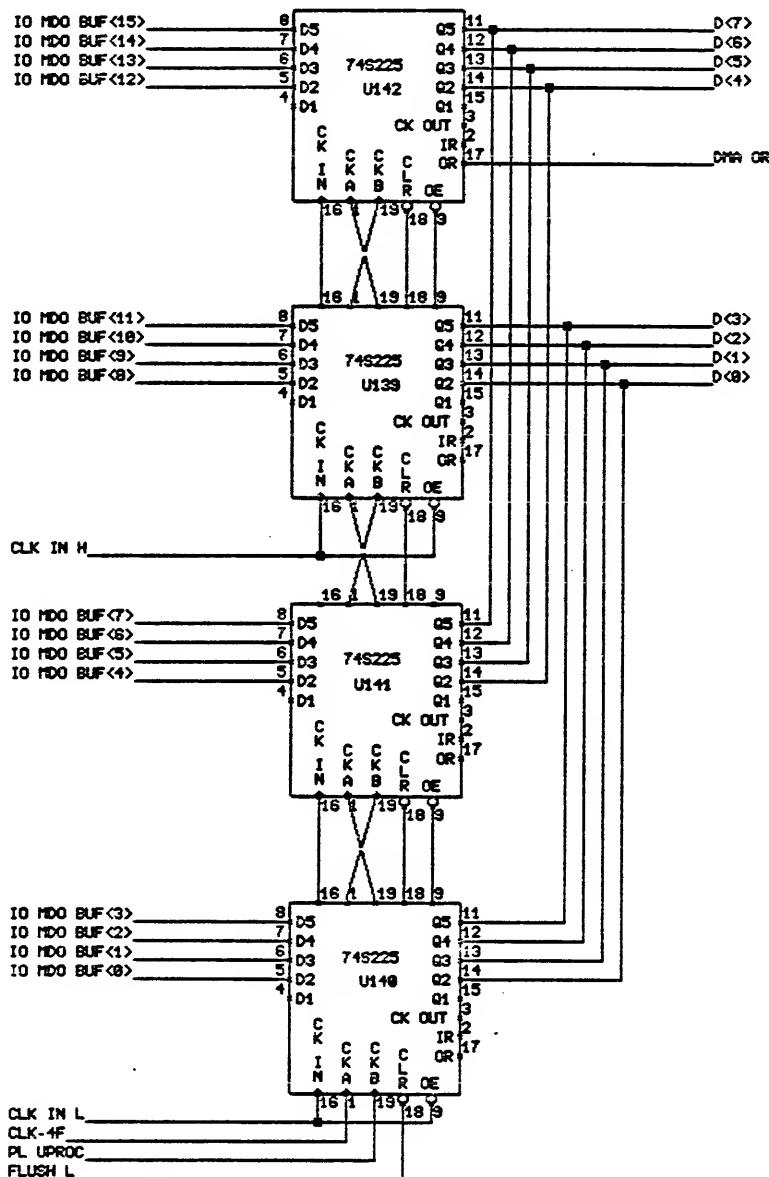
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TITLE  
Z80 MEMORY BUS OUTPUT

e10.db

DESIGNED	UCH		SIZE	CODE	IDENTIFICATION	VAR	REV
DRAWN	13 Sep 82 16:15:01	SBokse	A	1 1	0 1 9 8 -	8 2	T
UPDATED	FEB-23-84	STECK	PROJ :	NON ETHERNET I/O BOARD (MIO)			PAGE 18 OF 44

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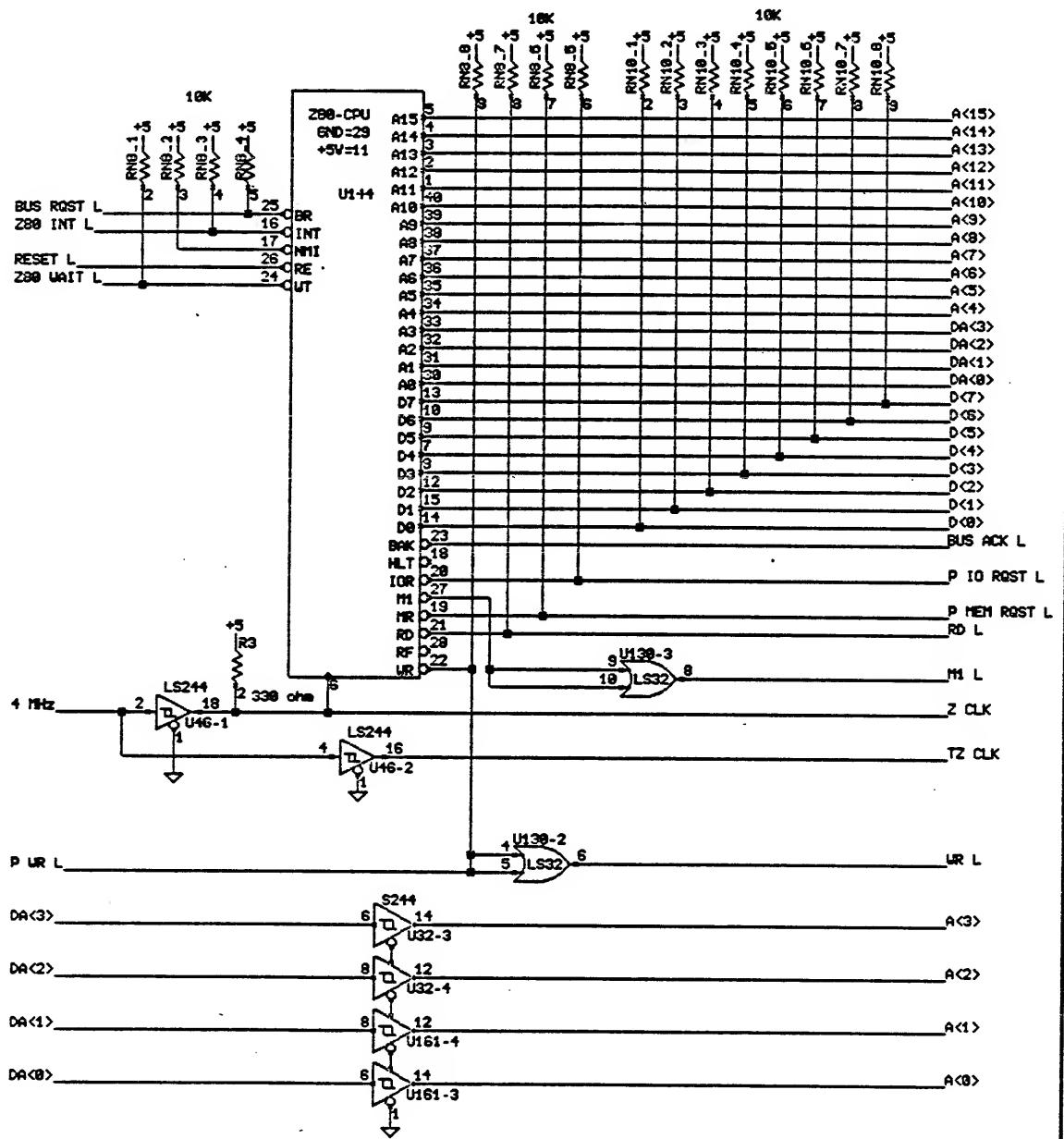
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TITLE  
298 MEMORY BUS INPUT

DESIGNED	WCH	SIZE	CODE	IDENTIFICATION	VAR	REV
DRAJIN	13 Sep 82 15:45:01	S8oksp	A	1 1 0 1 9 8 -	0 2	T
UPDATED	FEB-23-84	STECK	PROJ :	NON ETHERNET I/O BOARD (MIO)	PAGE 11 OF 14	

PERQ



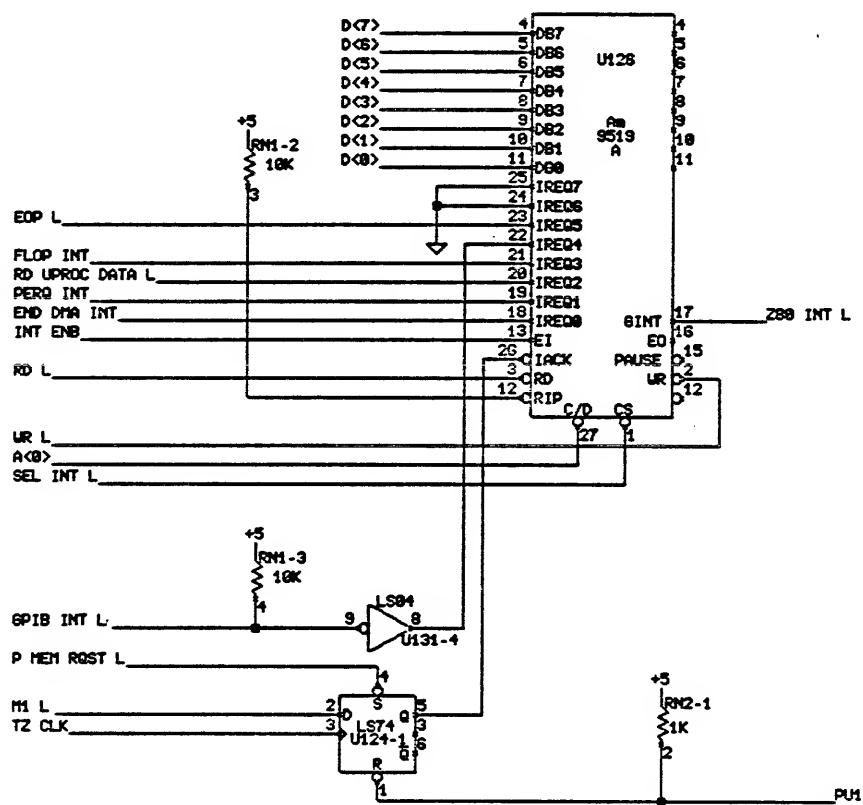
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288 MPU

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PERQ	DESIGNED	UCH	SIZE	CODE	IDENTIFICATION	VAR	REV	
	DRAWN	13 Sep 84 16:45:01	SSokse	A	1 1	0 1 9 8 -	0 2	T
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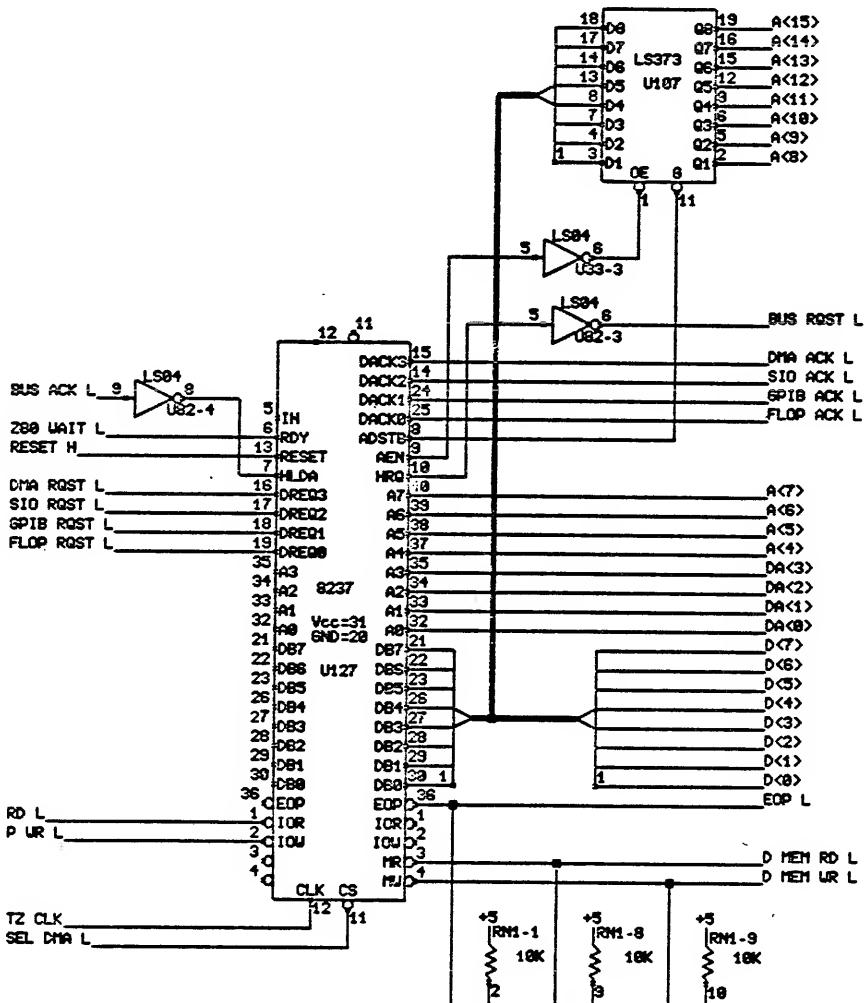
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TITLE Z80 INTERRUPTS

e13.00

PERQ SYSTEMS CORPORATION			SIZE	CODE	IDENTIFICATION	VAR	REV
PERQ	DESIGNED	WCH	A	11	6198-	82	T
	DRAWN	13 339 82 16:15:01	SBoles				
	UPDATED	FEB-23-81	STECK	PROJ :	NOM ETHERNET I/O BOARD (MIO)	PAGE 13 OF 44	



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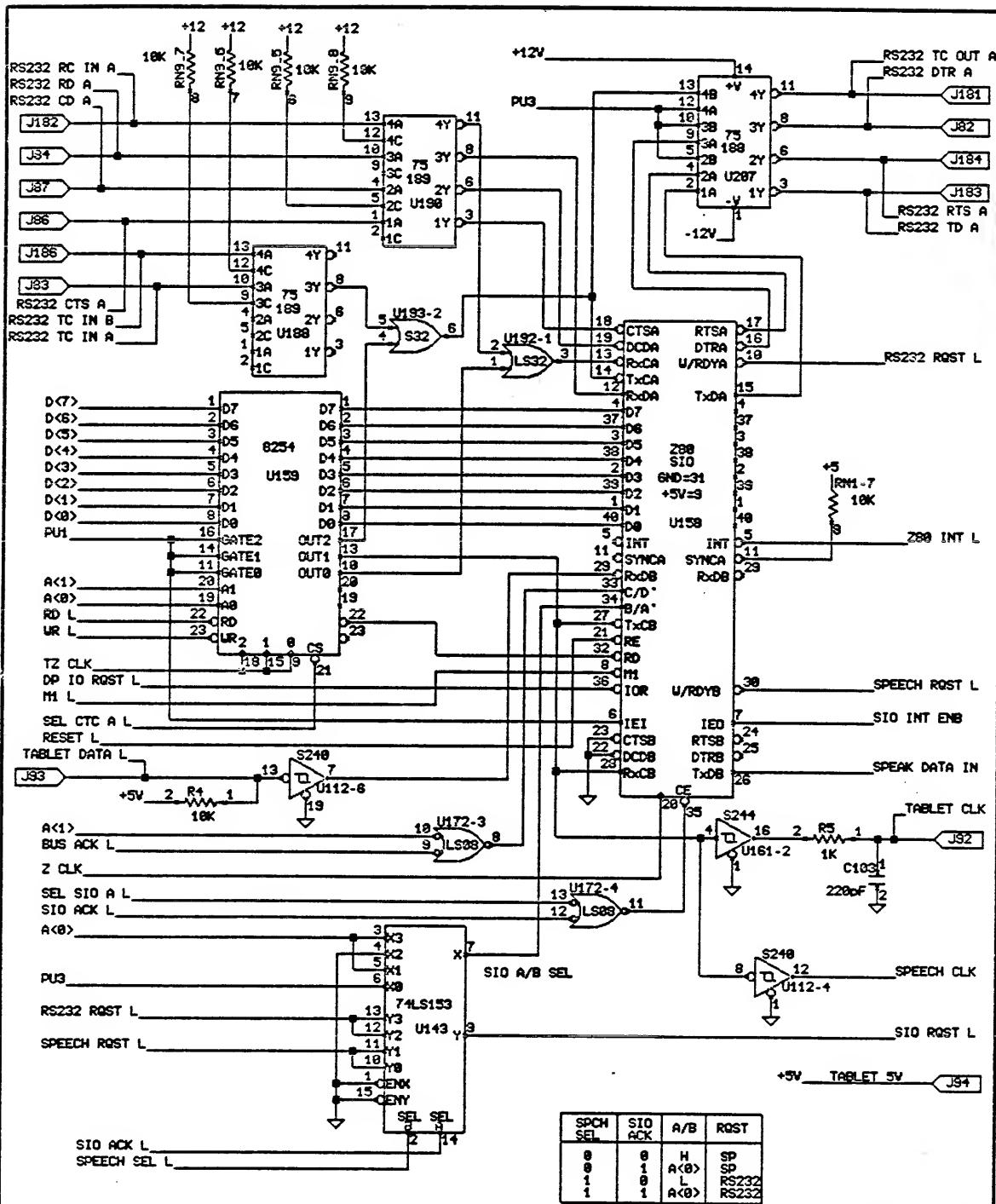
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**PERQ**

DESIGNED	UCH	SIZE	CODE	IDENTIFICATION	VAR	REV
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UPDATED	FEB-23-84	STECK	PROJ :	NON ETHERNET I/O BOARD (NIO)	PAGE 14	OF 14



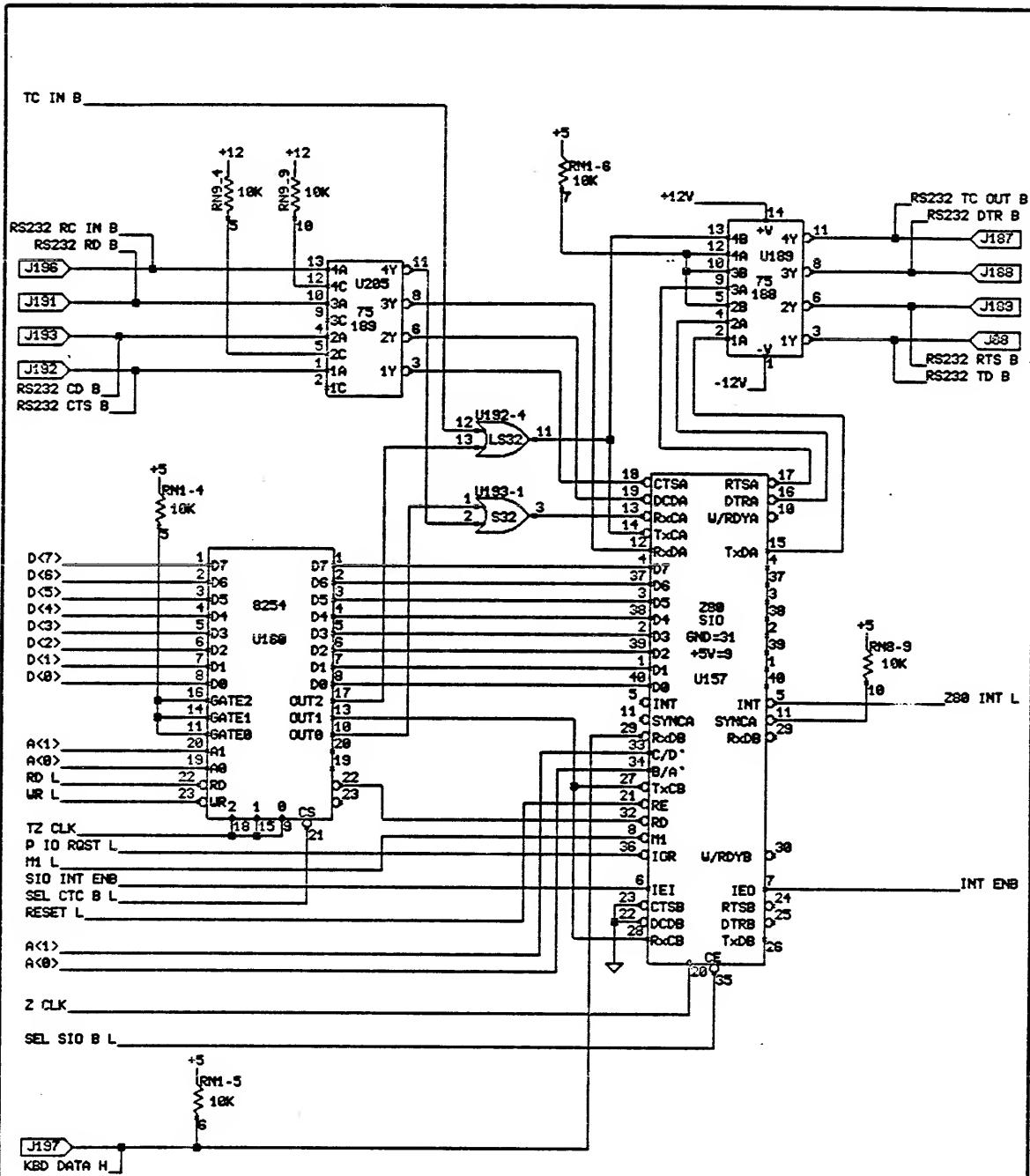
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TITLE  
280 SERIAL IO

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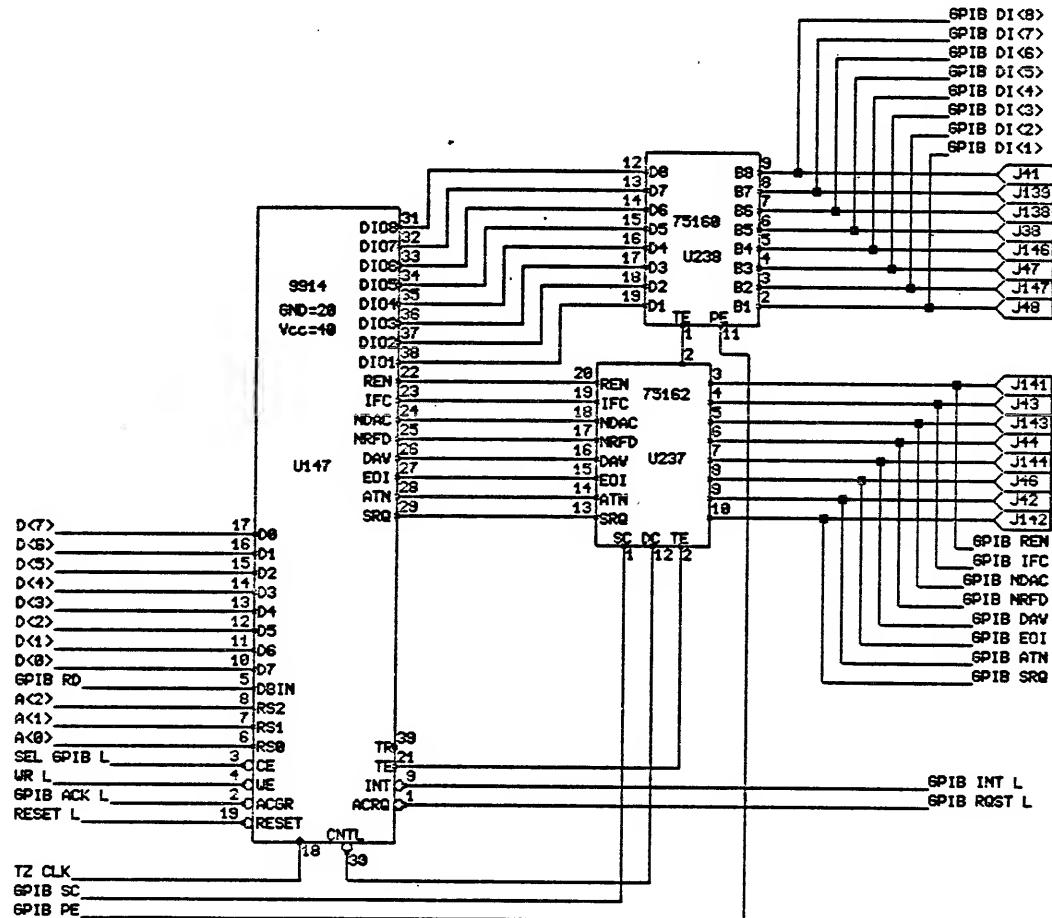
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	UPDATED MAY-24-84	STECK	PROJ :	NON ETHERNET I/O BOARD (MIO)		PAGE 15	OF 44



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TITLE Z80 SERIAL I/O e16.dp

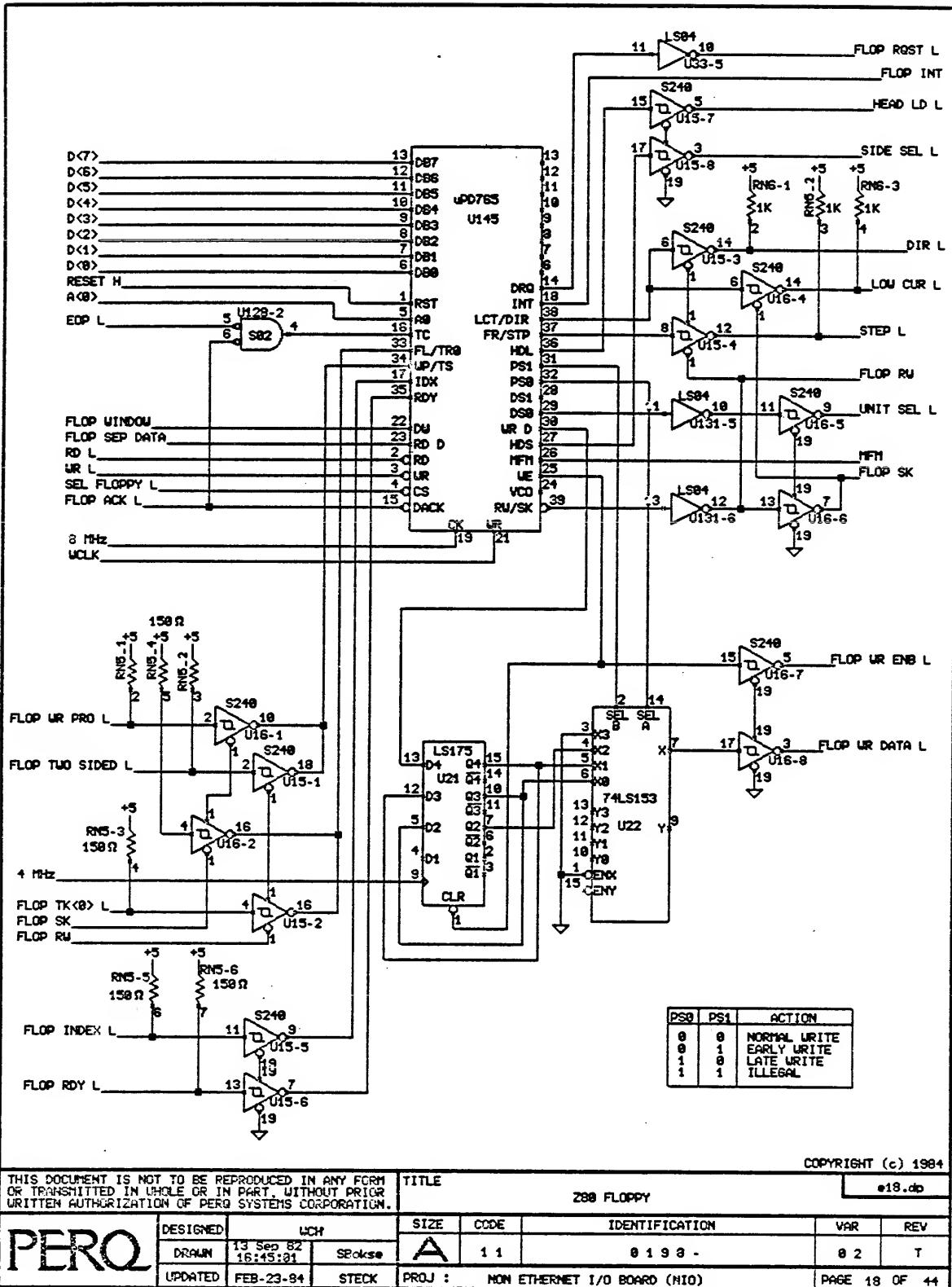
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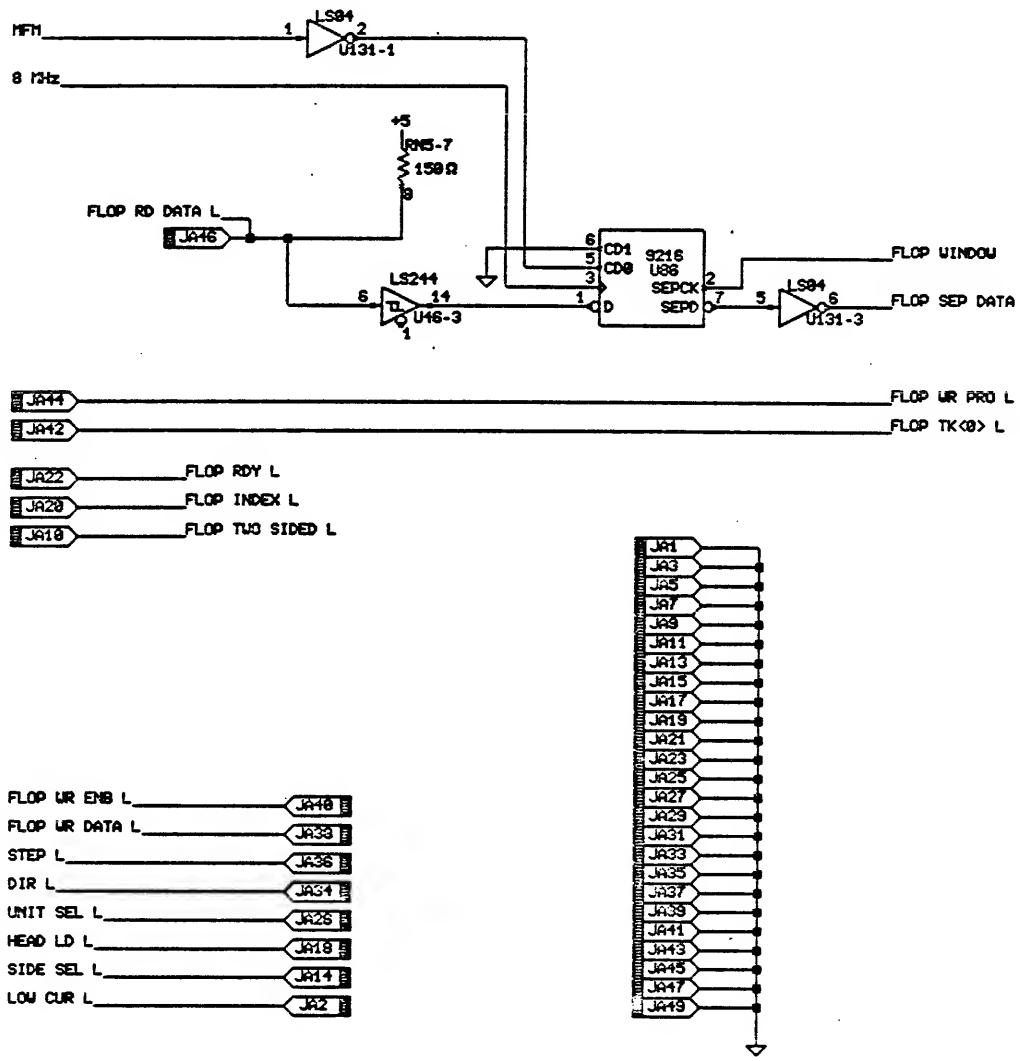


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TITLE Z38 GPIB IO e17.db

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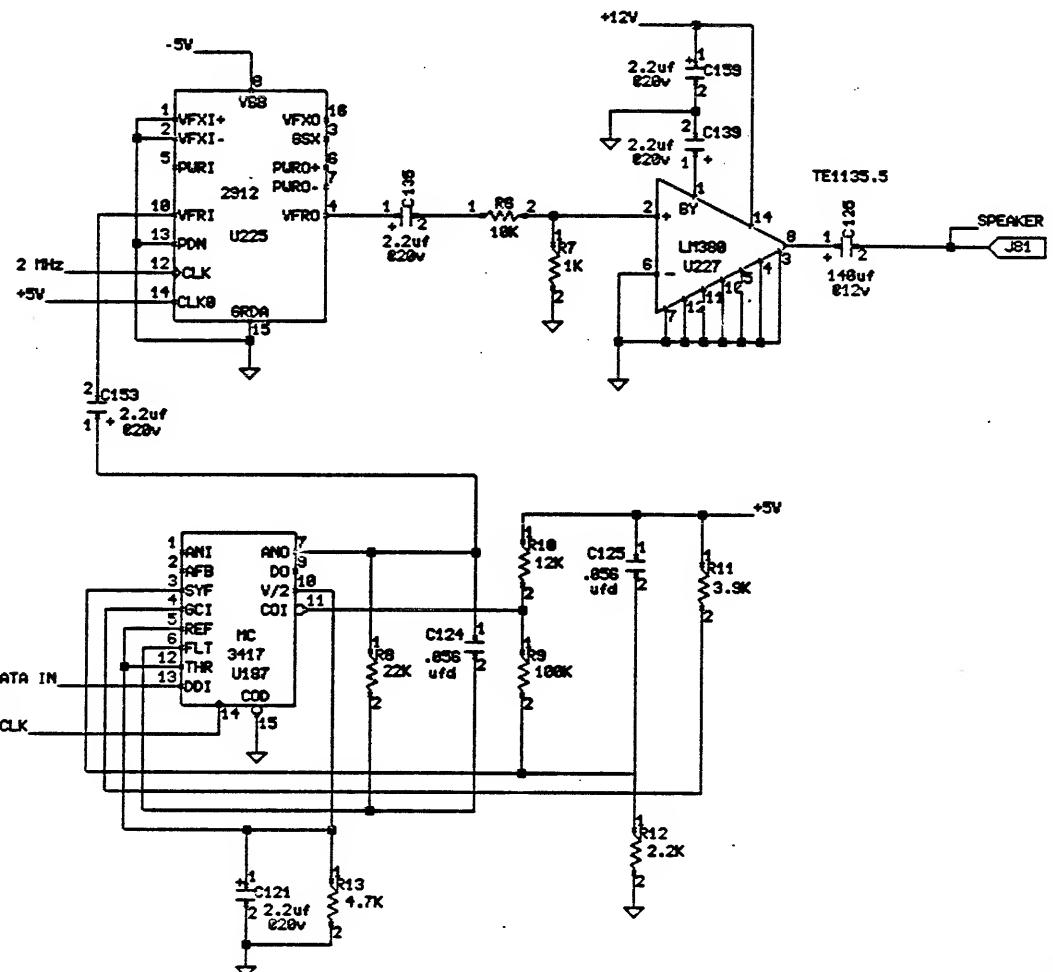
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**TITLE** FLOPPY DISK CONNECTOR

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PERO

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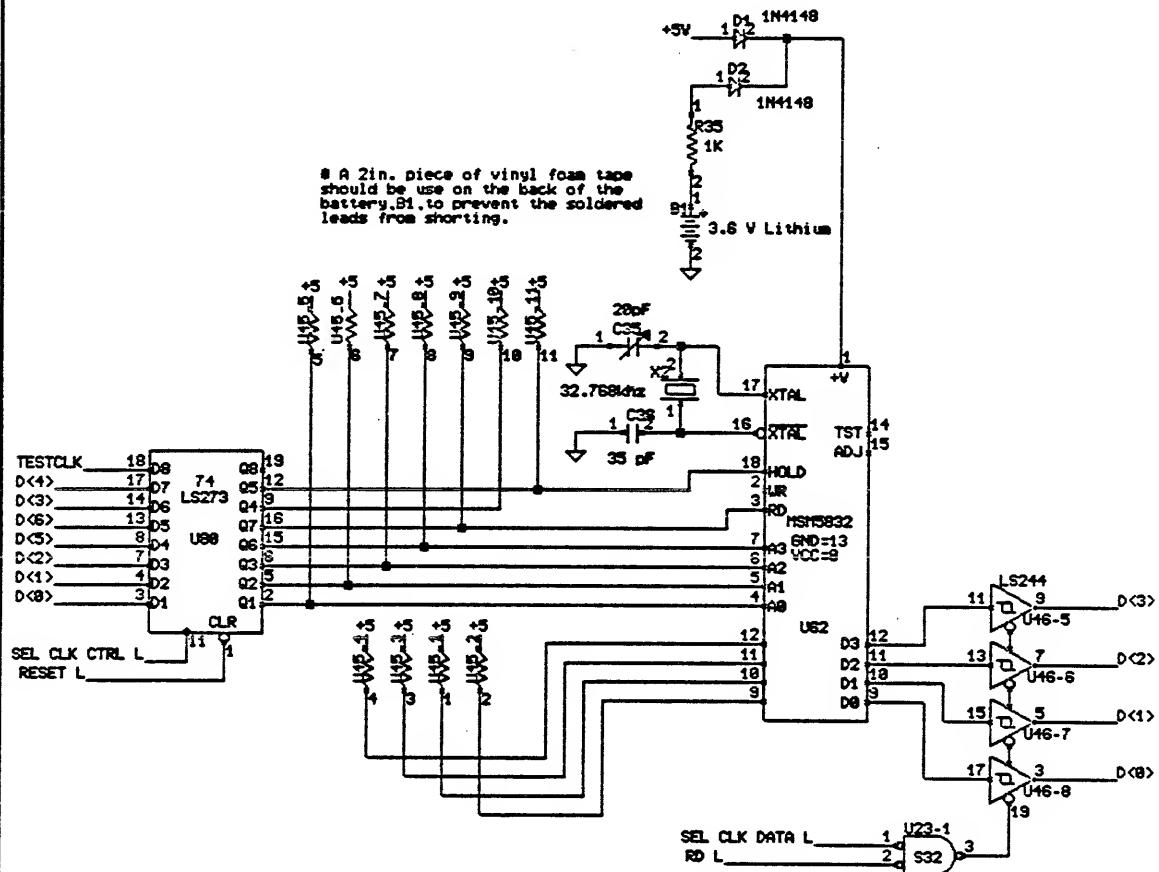
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TITLE  
CVSD DEMODULATOR

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e20.db

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	DRAUN	13 Sep 82	SBoke				8 2	T
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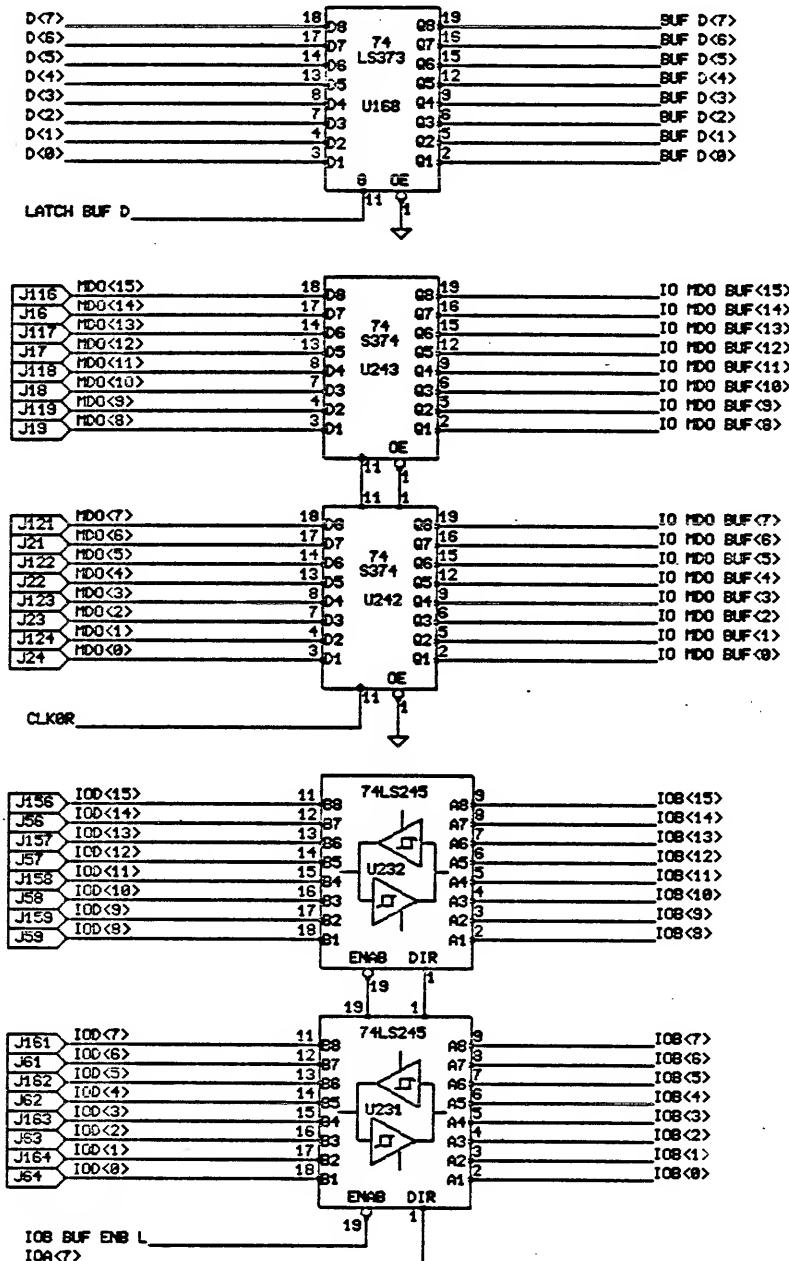
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TITLE  
REAL TIME CLOCK

e21.db

DESIGNED	UCH	SIZE	CCODE	IDENTIFICATION	VAR	REV
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UPDATED MAY-24-84	STECK	PROJ :	NON ETHERNET I/O BOARD (NIO)		PAGE 21	OF 44

**PERO**



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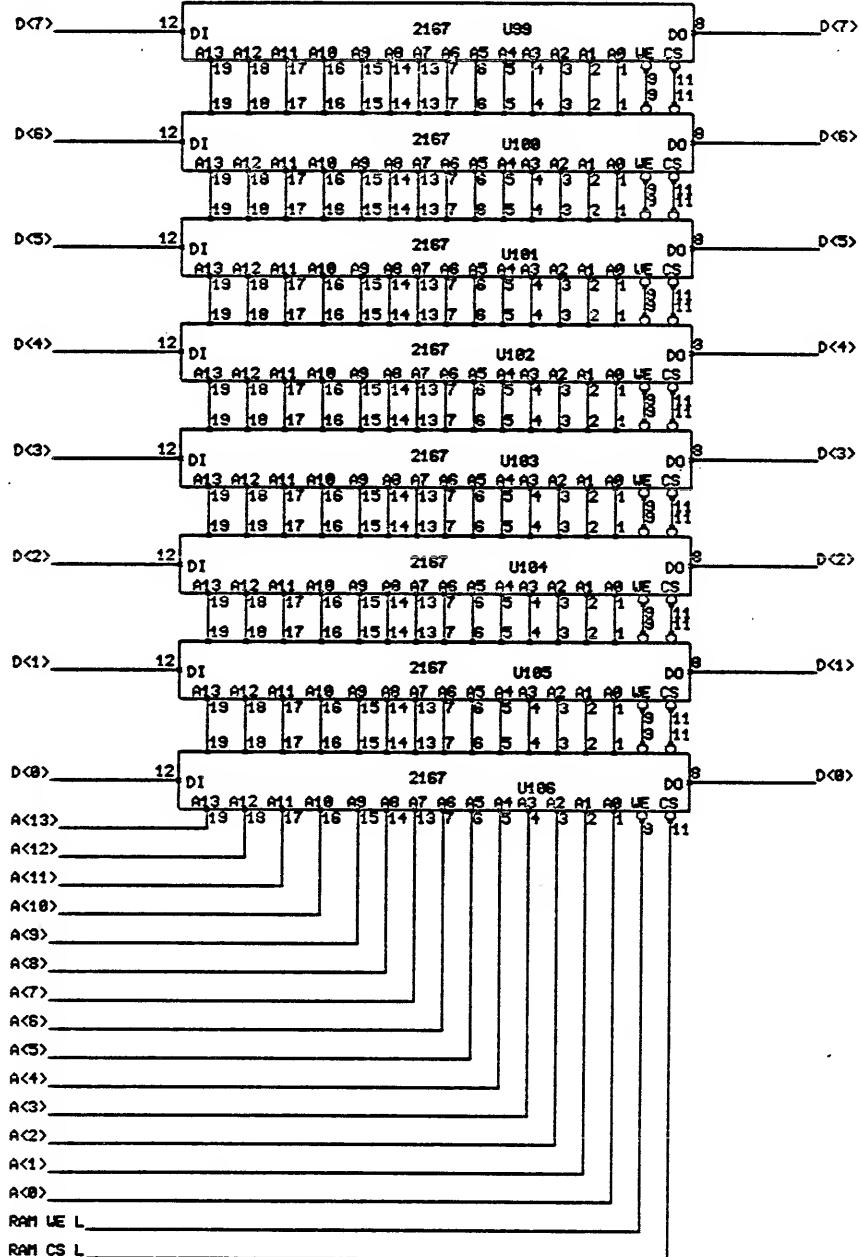
TITLE  
EIO BUS BUFFERS

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e22.dp

**PERO**

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UPDATED	FEB-23-84	STECK	PROJ :	NON ETHERNET I/O BOARD (NIO)	PAGE 22 OF 44	



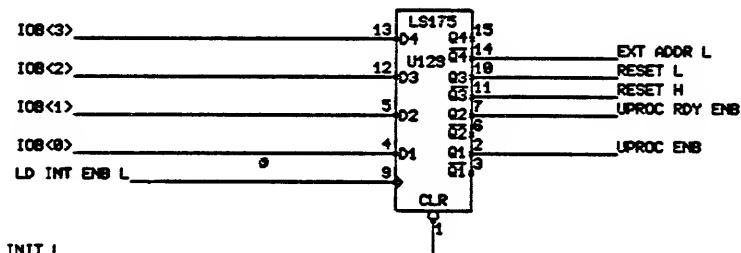
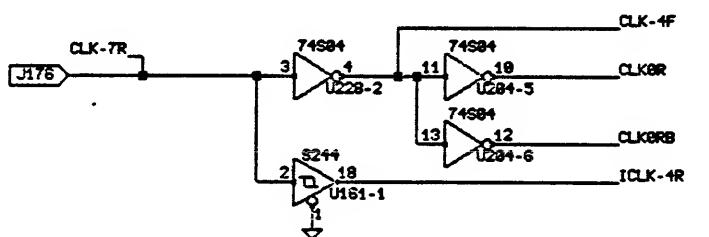
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\*23.dp

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**PERO**



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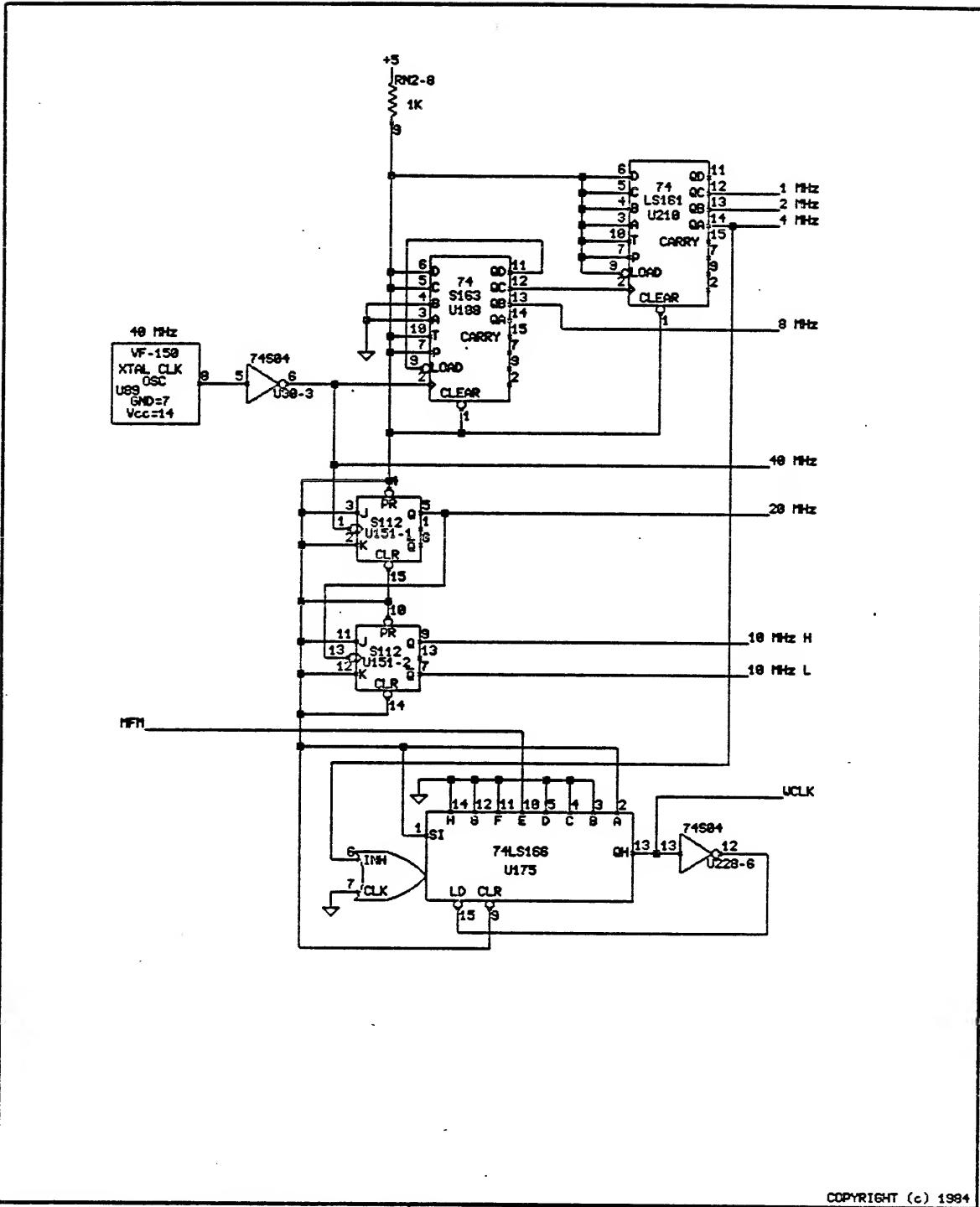
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TITLE  
IO BUS CONTROL & SYSTEM CLOCKS

e24.db

DESIGNED	WCH	SIZE	CODE	IDENTIFICATION	VAR	REV
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UPDATED	FEB-23-84	STECK	PROJ :	NON ETHERNET I/O BOARD (NIO)	PAGE 24	OF 44

**PERO**



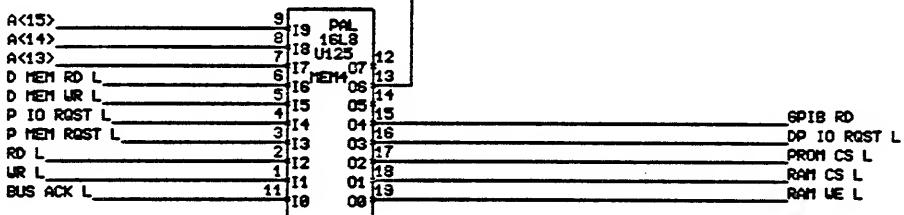
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TITLE Z80 CLOCKS e23.dp

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UPDATED FEB-23-84	STECK	PROJ :	NON ETHERNET I/O BOARD (NIO)			PAGE 25 OF 44

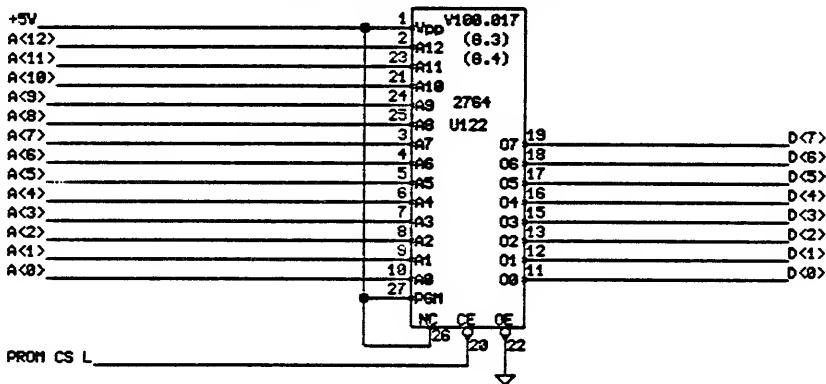
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END DMA INT



Z80 BOOT PROM

(FOR 8.3 & 8.4 SOFTWARE, USE PROM V100.017)



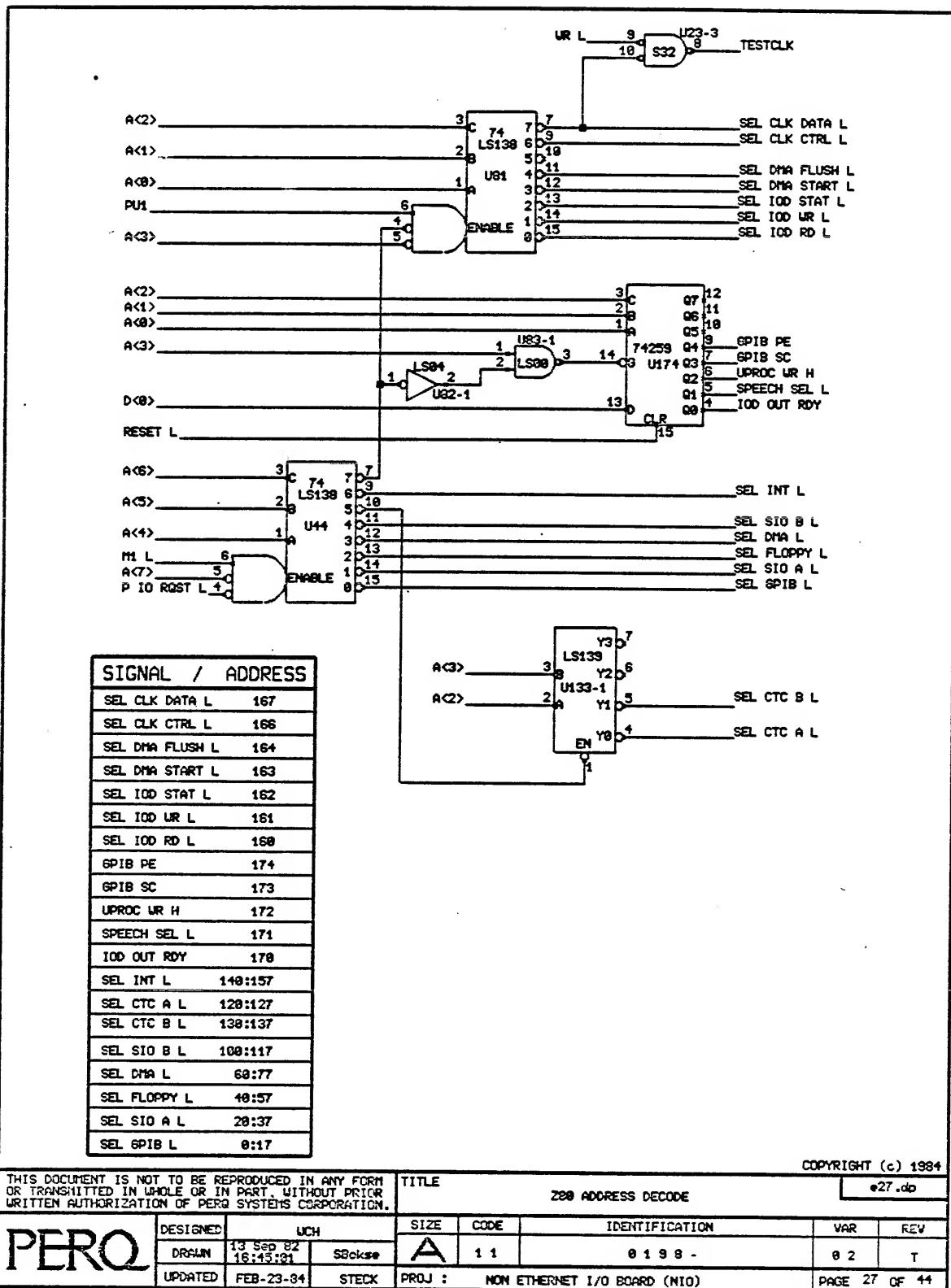
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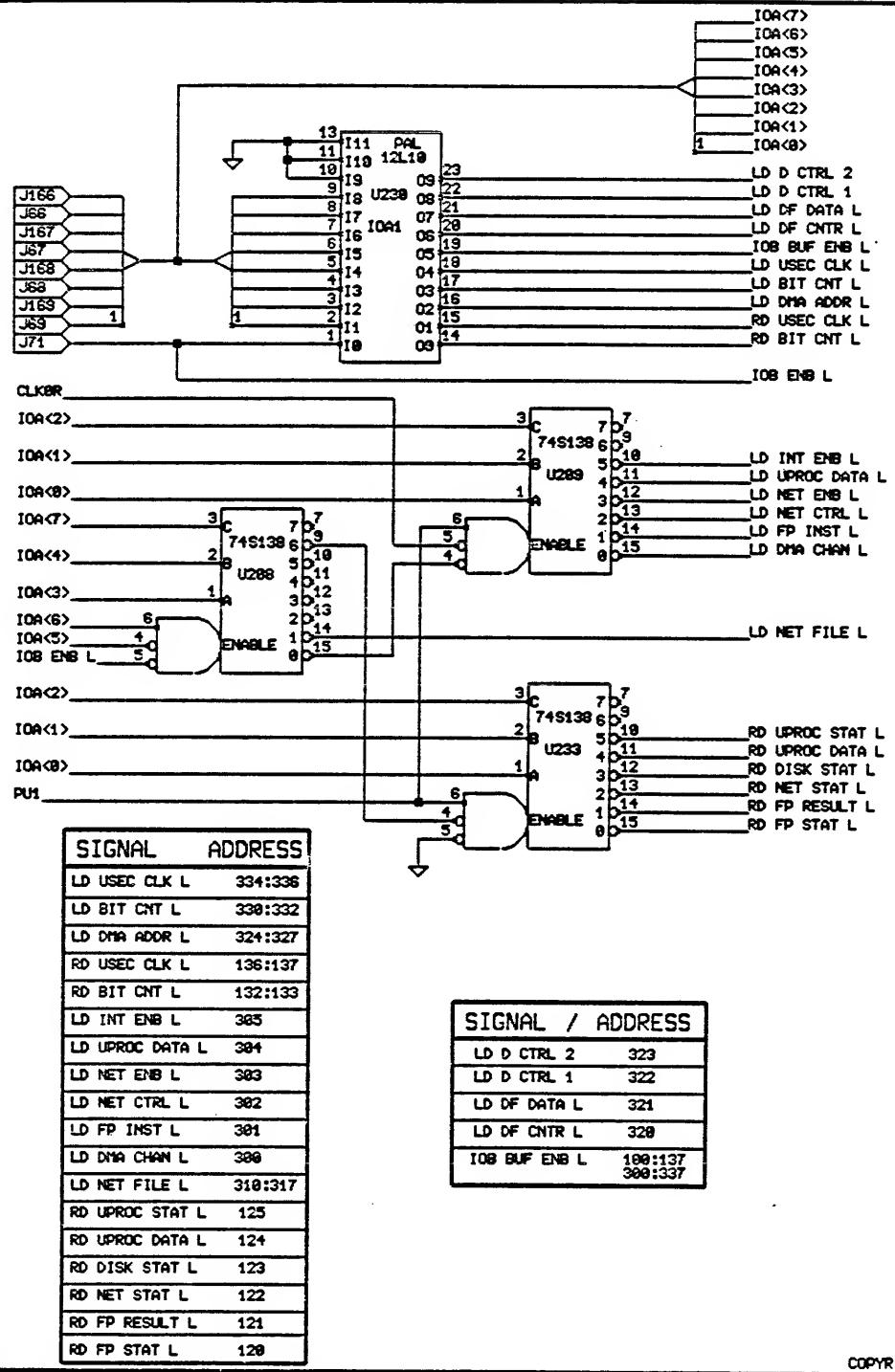
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TITLE  
MEMORY CONTROL

e26.dp

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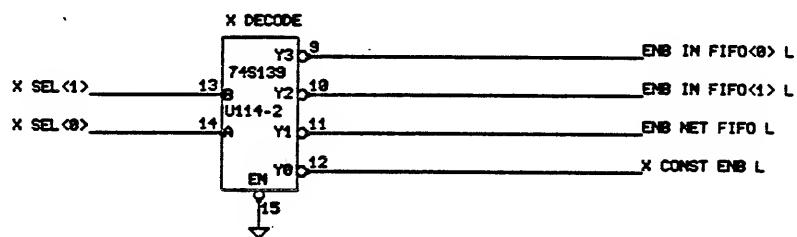


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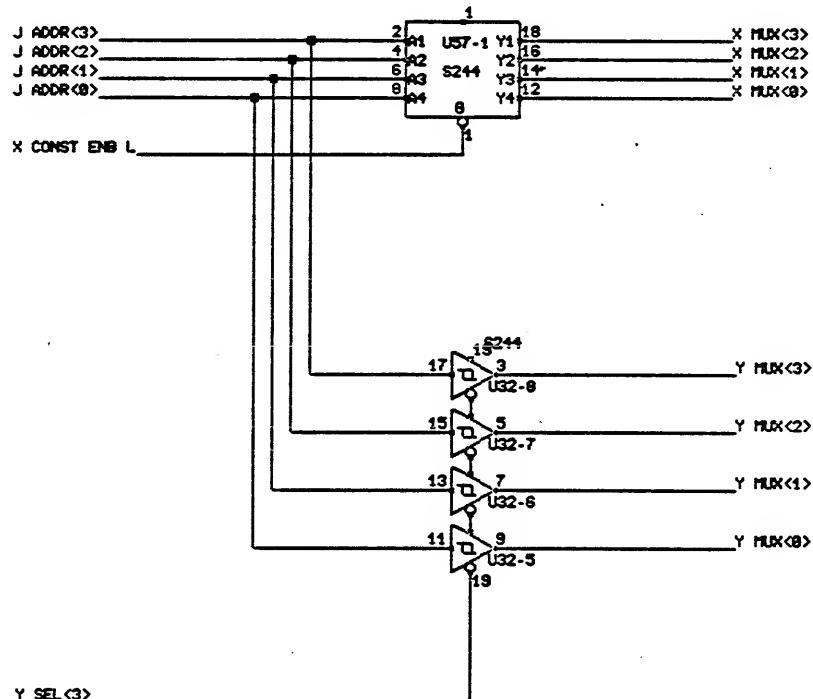
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UPDATED	FEB-23-84	STECK	PROJ :	NON ETHERNET I/O BOARD (NIO)	PAGE 28	OF 44

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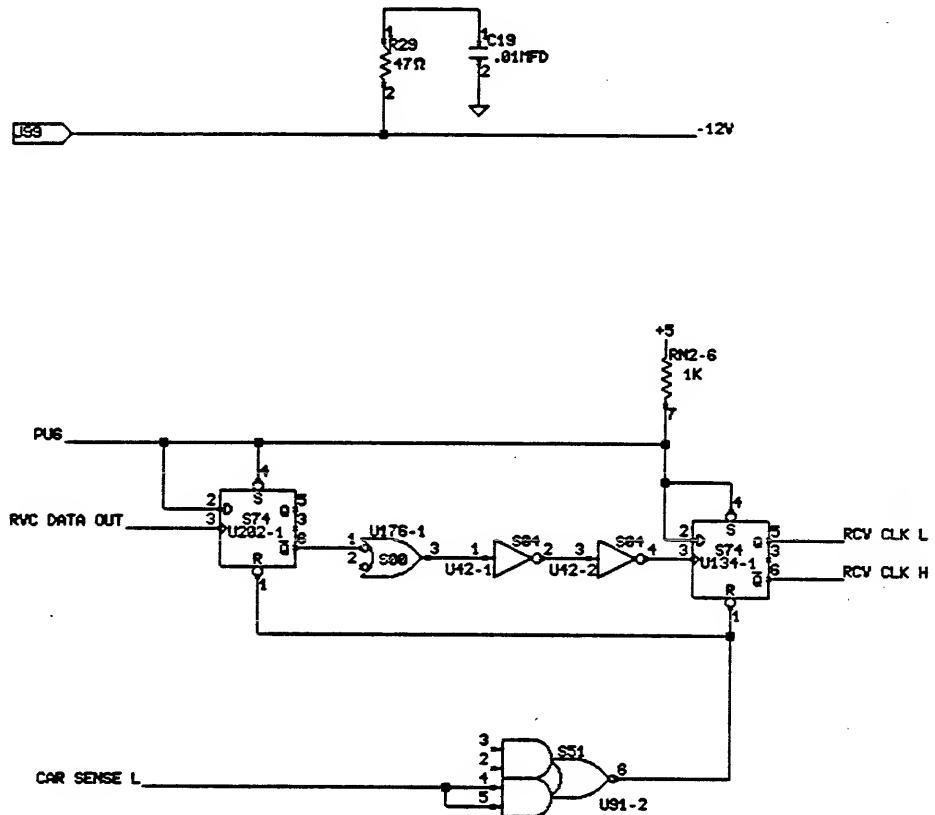
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TITLE NET CONTROLLER CONSTANTS

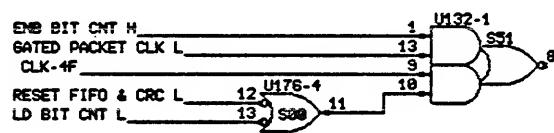
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	UPDATED	FEB-23-84	STECK	PROJ :	NON ETHERNET I/O BOARD (NIO)		PAGE 38 OF 44	



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PERQ	DESIGNED	UCH		SIZE	CODE	IDENTIFICATION	VAR	REV
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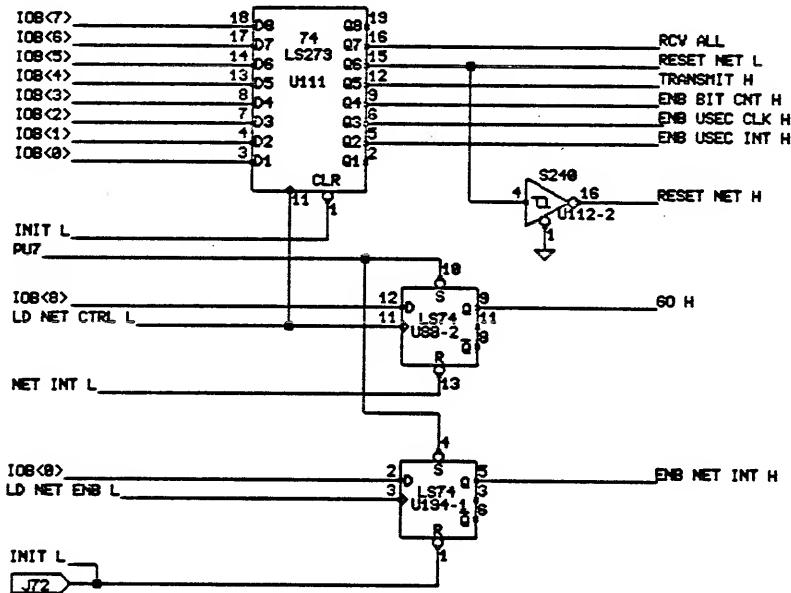
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TITLE NET BIT COUNTER

e32.dp

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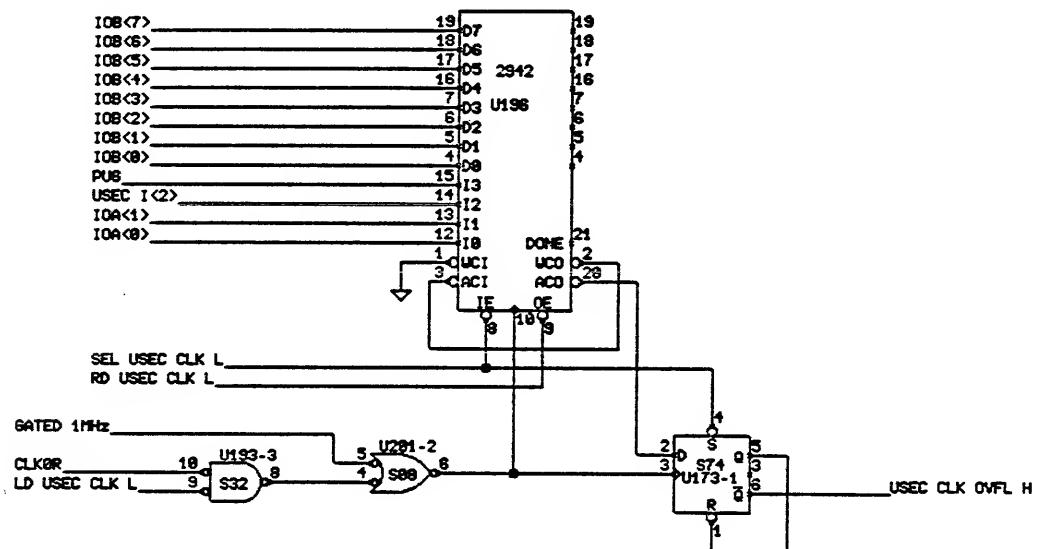


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**TITLE** PERQ CONTROL REGISTER

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PERQ	DESIGNED	UCH		SIZE	CODE	IDENTIFICATION	VAR	REV
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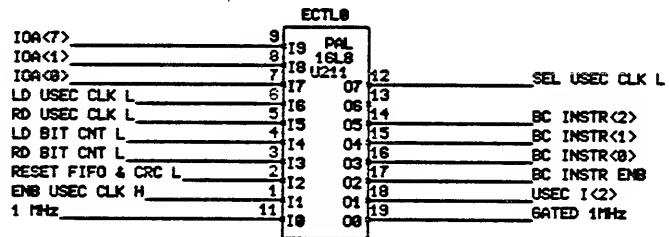
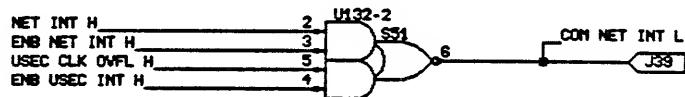


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TITLE MICROSECOND CLOCK

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PERQ SYSTEMS CORPORATION			DESIGNED	WCH	SIZE	CODE	IDENTIFICATION	VAR	REV	
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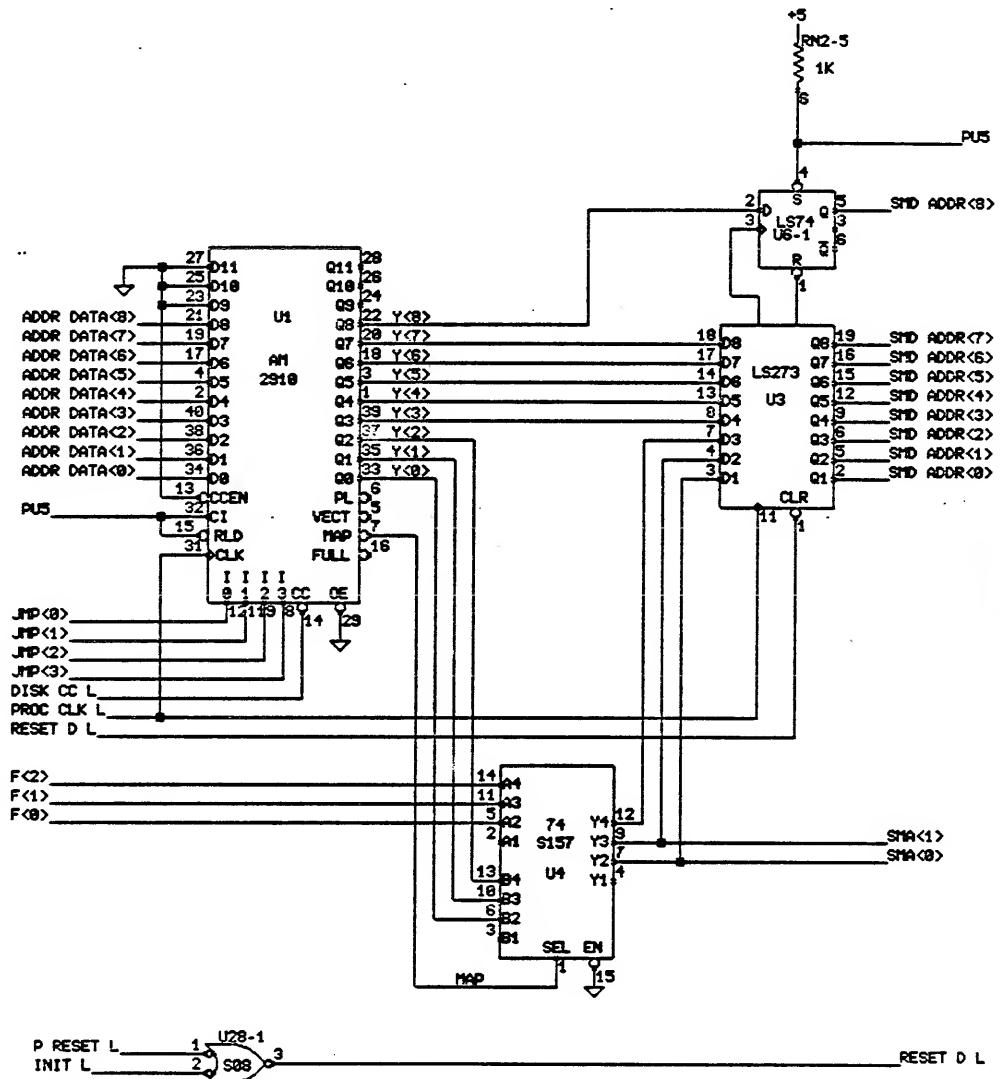


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TITLE e35.dp  
NET CONTROLLER

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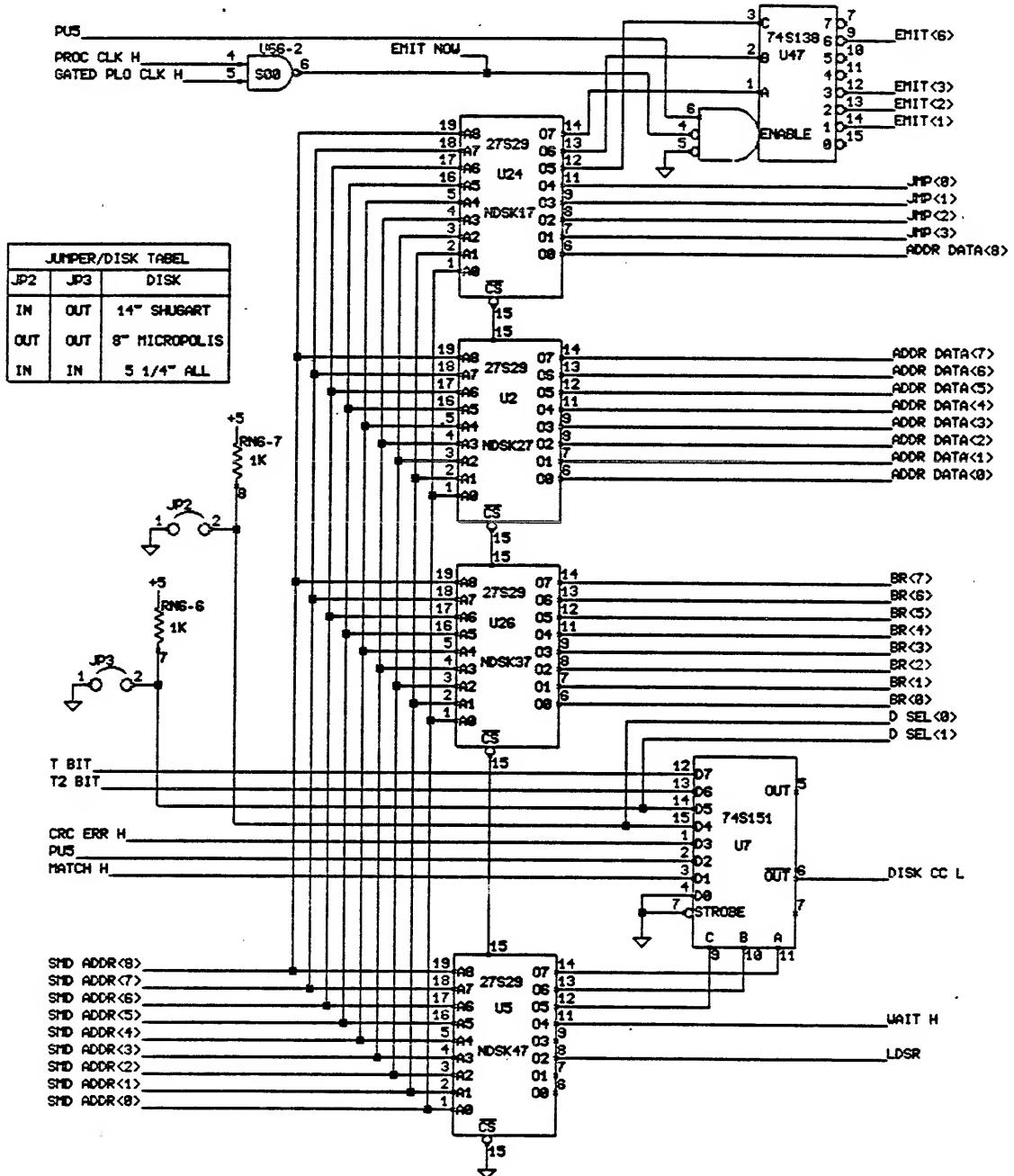
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TITLE  
DISK STATE MACHINE

e36.db

**PERQ**

DESIGNED	WCH		SIZE	CODE	IDENTIFICATION	VAR	REV
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UPDATED	FEB-23-84	STECK	PROJ :	NON ETHERNET I/O BOARD (NIO)		PAGE 36	OF 44



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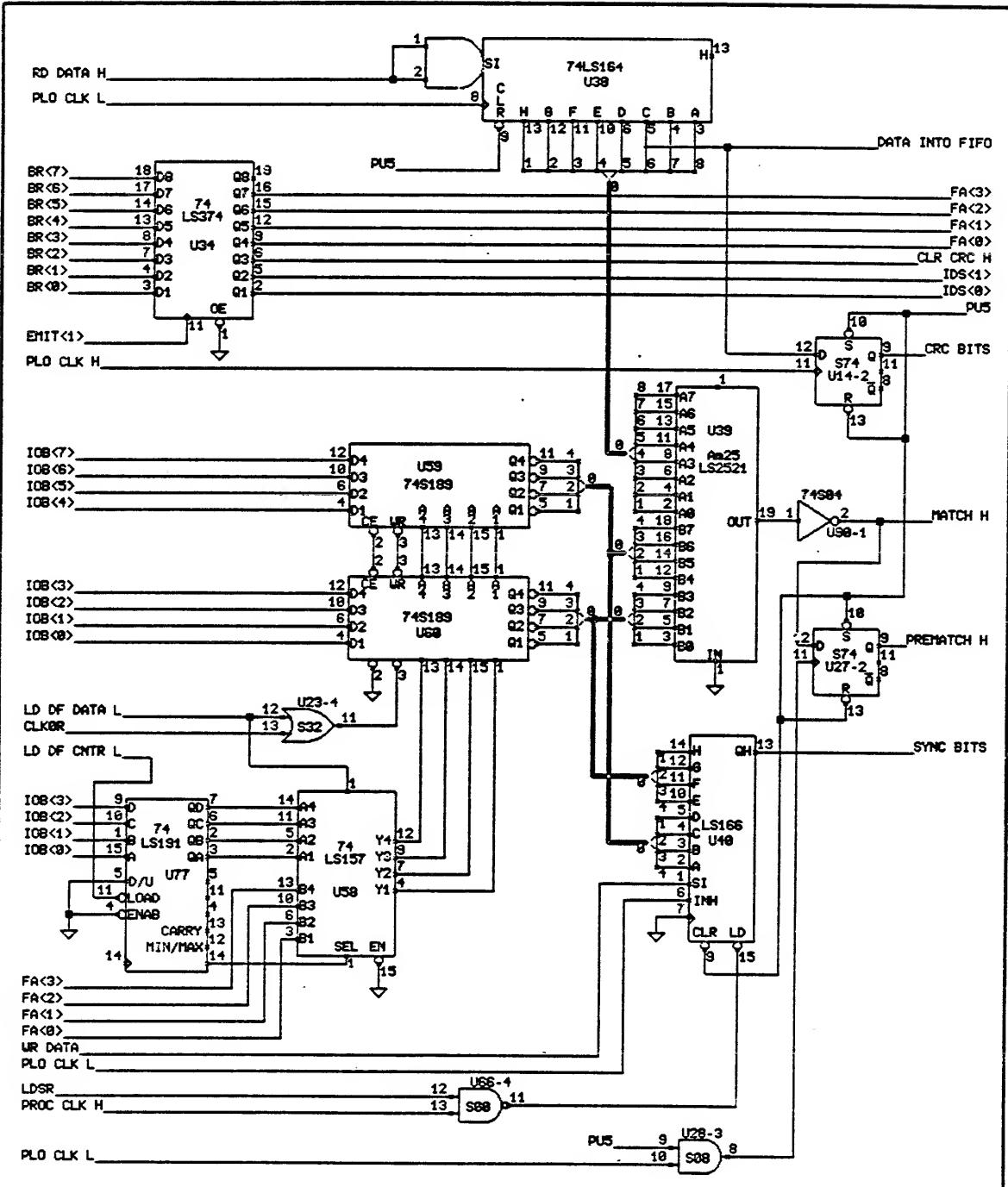
TITLE: DISK STATE MACHINE

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e37.db

**PERQ**

DESIGNED	WCH		SIZE	CODE	IDENTIFICATION	VAR	REV
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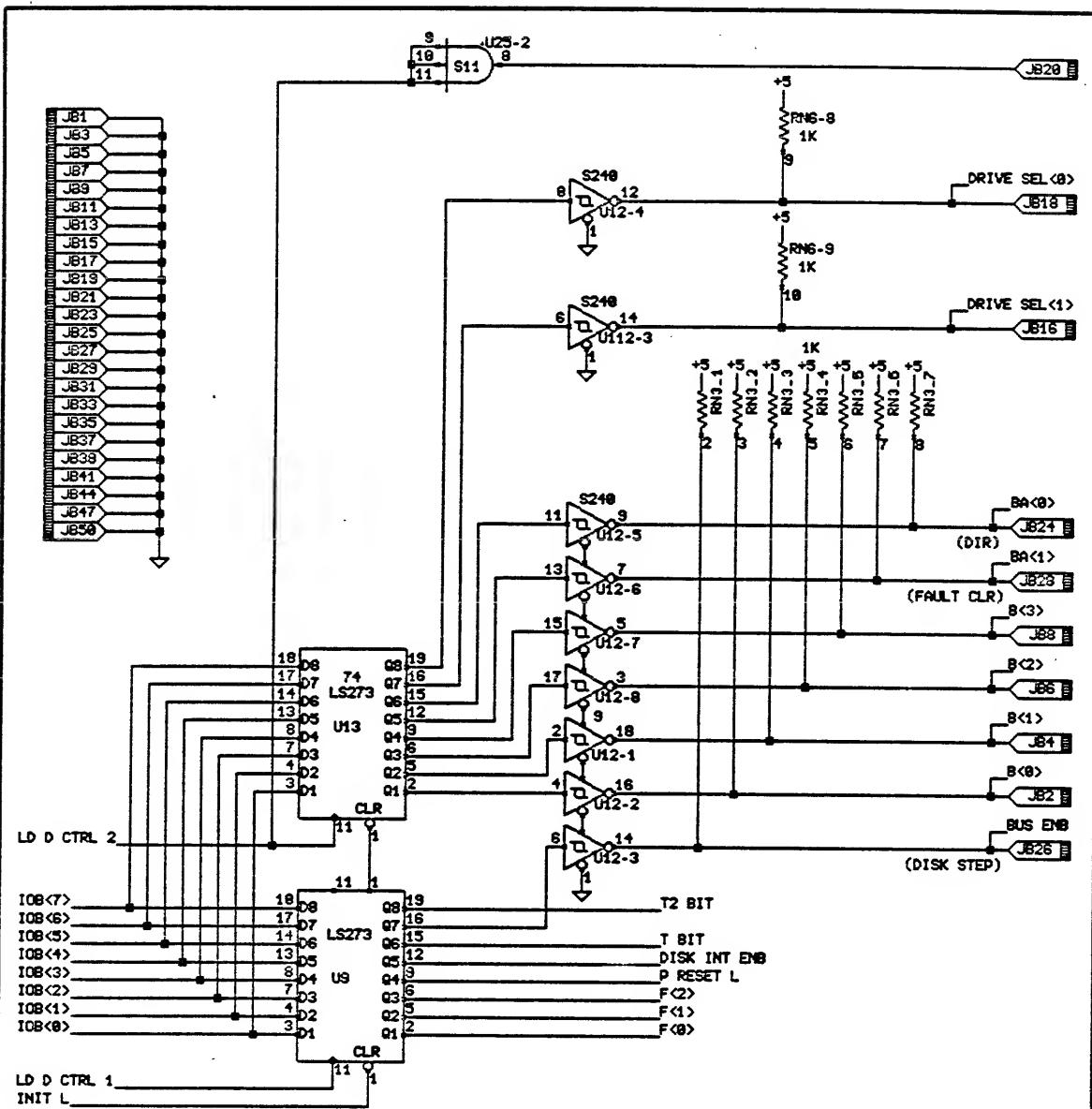
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TITLE DISK REGISTER FILE e38.dp

**PERQ**

DESIGNED	WCH	SIZE	CODE	IDENTIFICATION	VAR	REV
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UPDATED AUG/10/84	STECK	PROJ :	NON ETHERNET I/O BOARD (MIO)			PAGE 38 OF 14

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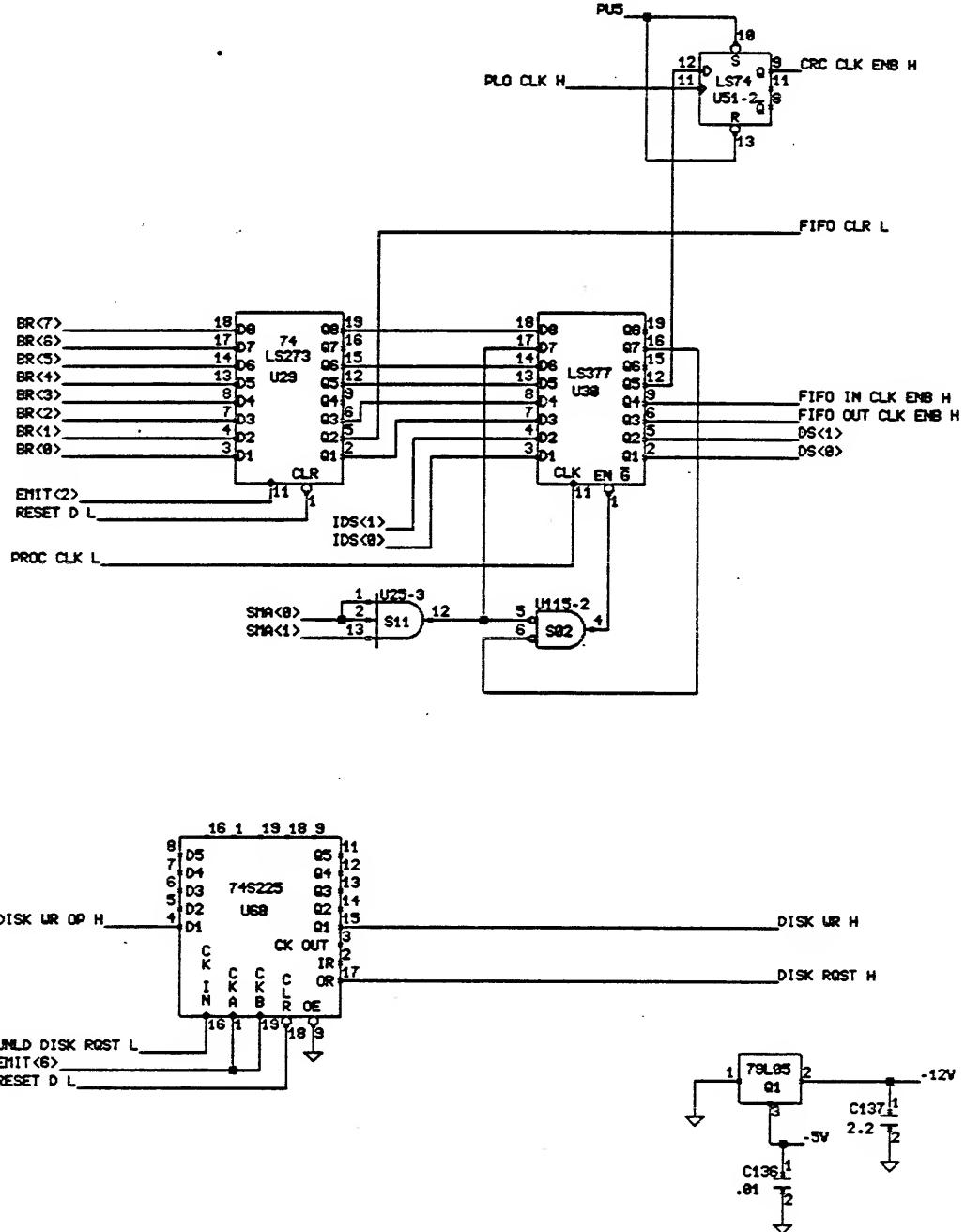
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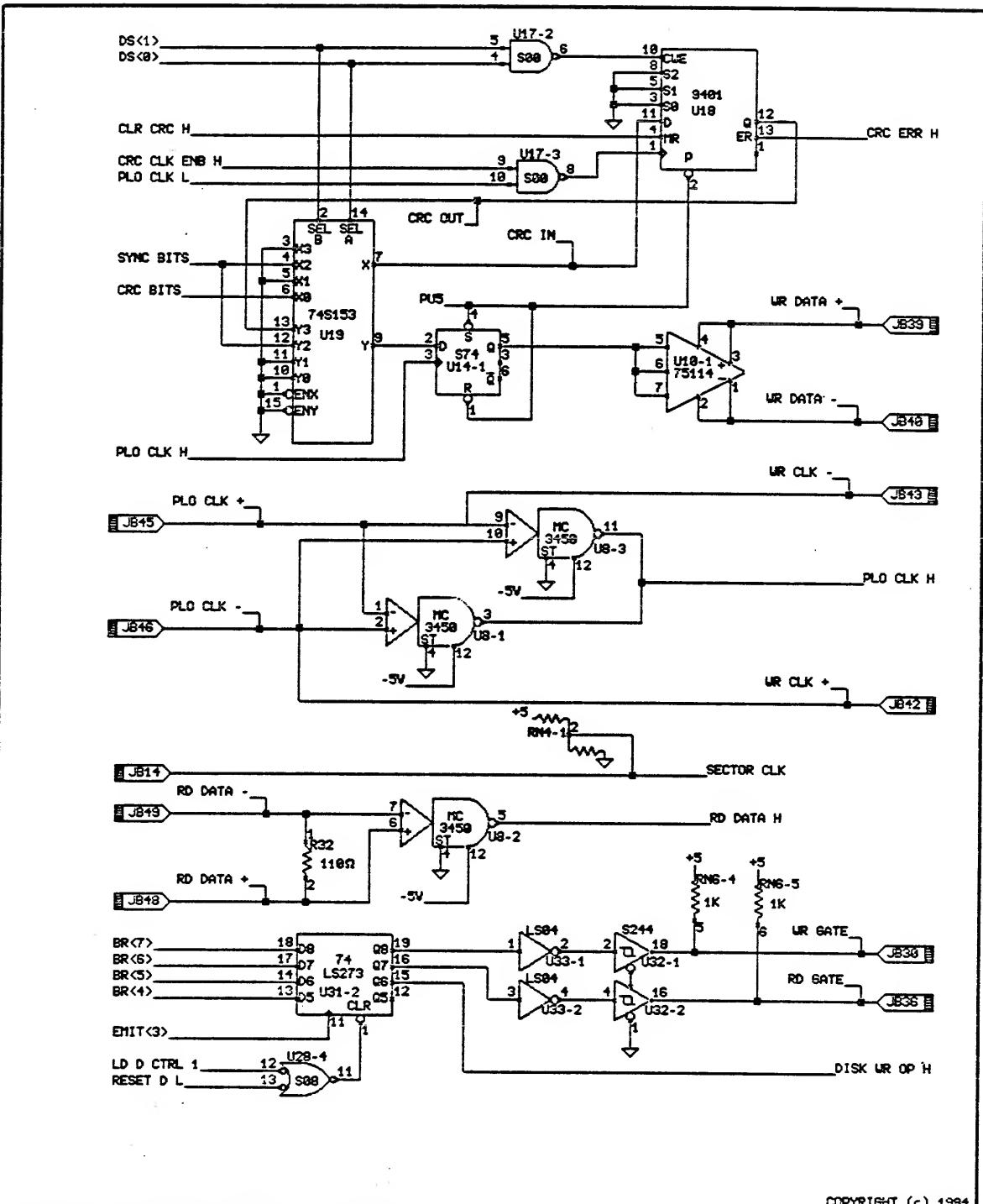
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			DISK FIFO CONTROL		e10.db		
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**PERQ**

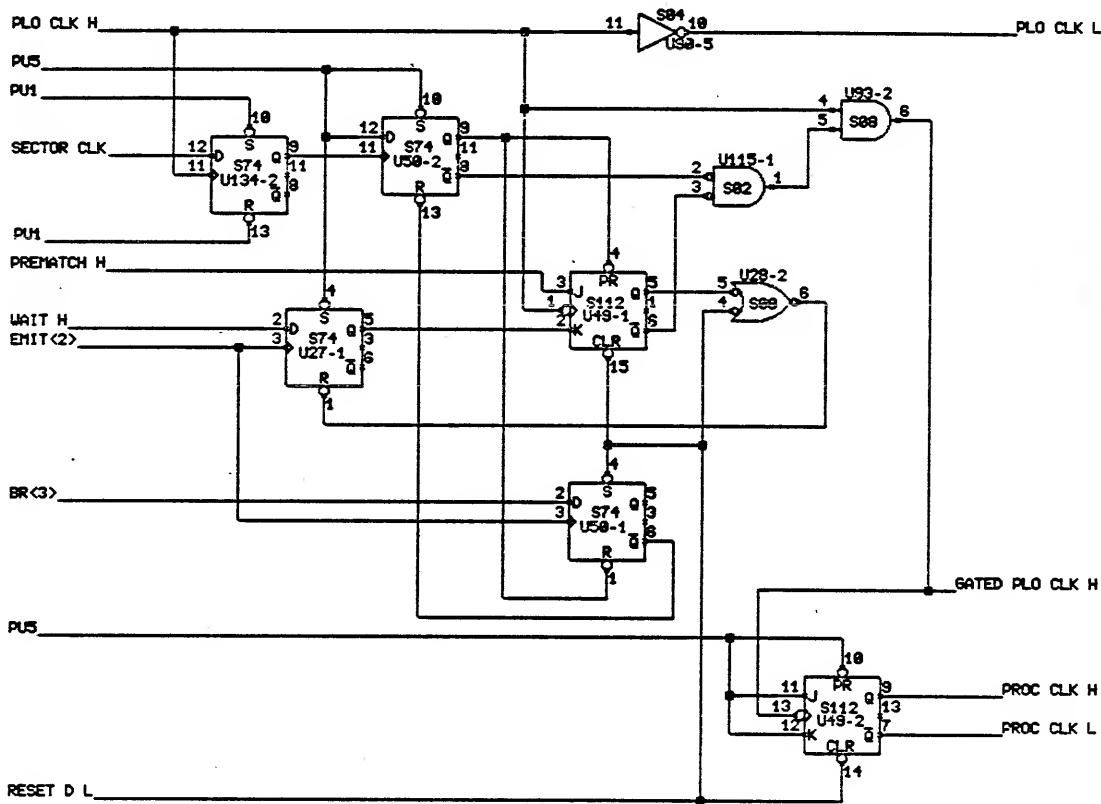


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TITLE DISK INTERFACE

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		UPDATED	FEB-23-84	STECK	PROJ :	NOM ETHERNET I/O BOARD (MIO)	PAGE 11 OF 14	



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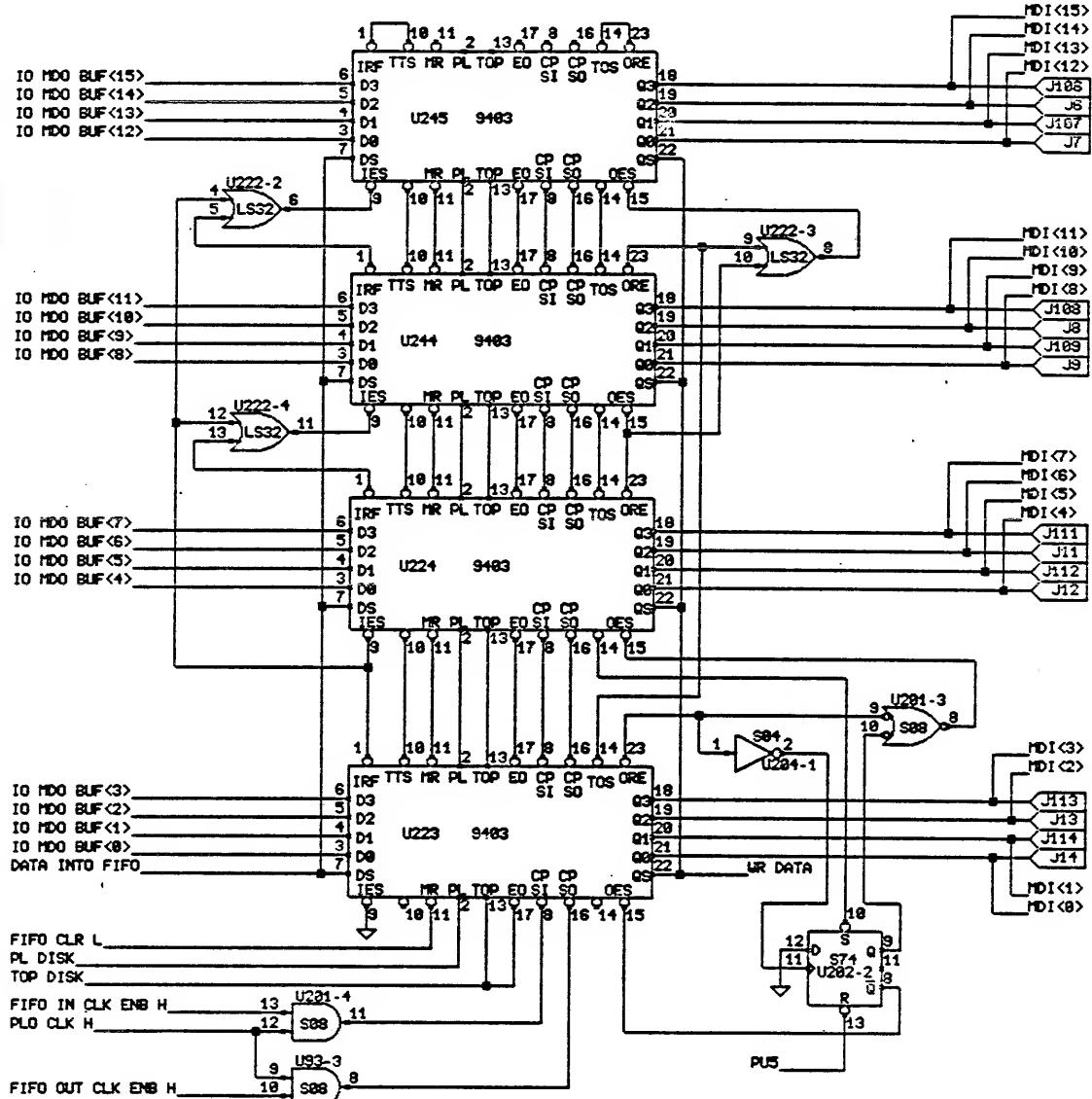
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TITLE DISK CLOCK

e12.dp

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**PERQ**



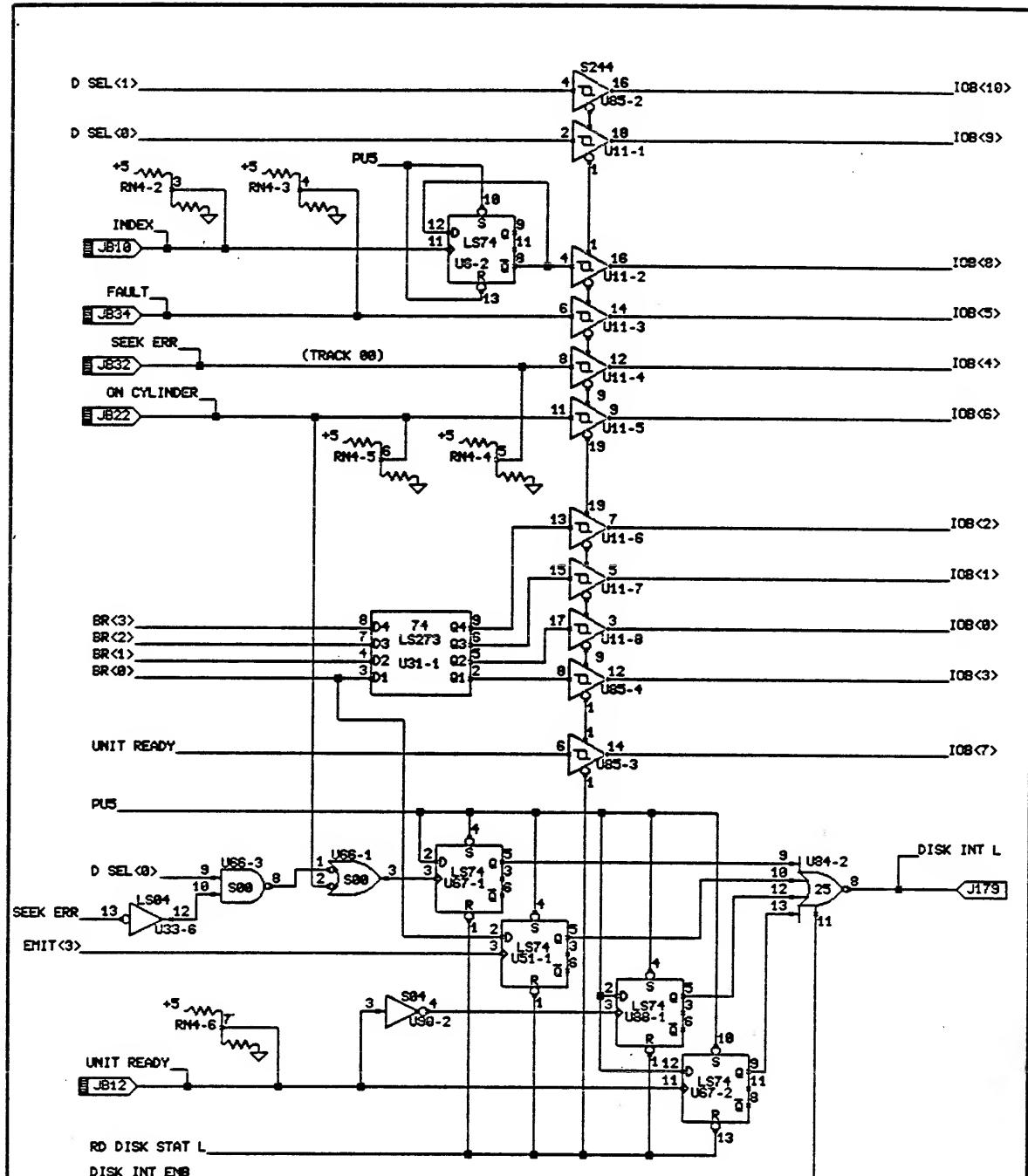
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TITLE  
DISK DATA BUFFERS

e43.db

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TITLE DISK STATUS e44.dp

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DISK WR OP H.....	41	40												
DMA ACK L.....	14	7												
DMA FIFO L.....	7													
DMA IR.....	10	7												
DMA OR.....	11	7												
DMA RQST L.....	14	7												
DP IO RQST L.....	26	15												
DRIVE SEL<0>.....	39													
DRIVE SEL<1>.....	39													
DS<0>.....	41	40												
DS<1>.....	41	40												
EMIT NOW.....	37													
EMIT<1>.....	38	37												
EMIT<2>.....	42	40	37											
EMIT<3>.....	44	41	37											
EMIT<6>.....	40	37												
ENB BIT CNT H.....	33	32												
ENB IN FIFO<0> L.....	29													
ENB IN FIFO<1> L.....	29													
ENB MA H.....	5	3												
ENB NET FIFO L.....	29													
ENB NET INT H.....	35	33												
ENB PL.....	3													
ENB TOP.....	3													
ENB USEC CLK H.....	35	33												
ENB USEC INT H.....	35	33												
END DMA INT.....	26	13	7											
EOP L.....	18	14	13	7										
EXT A RQST H.....	2													
EXT A WR H.....	2													
EXT ADDR L.....	24	5												
EXT B RQST H.....	2													
EXT B WR H.....	2													

F<0>.....	39	36
F<1>.....	39	36
F<2>.....	39	36
FA<0>.....	38	
FA<1>.....	38	
FA<2>.....	38	
FA<3>.....	38	
FAULT.....	44	
FIFO CLR L.....	43	40
FIFO IN CLK ENB H.....	43	40
FIFO OUT CLK ENB H.....	43	40
FLOP ACK L.....	18	14
FLOP INDEX L.....	19	18
FLOP INT.....	18	13
FLOP RD DATA L.....	19	
FLOP RDY L.....	19	18
FLOP RQST L.....	18	14
FLOP RW.....	18	
FLOP SEP DATA.....	19	18
FLOP SK.....	18	
FLOP TK<0> L.....	19	18
FLOP TWO SIDED L.....	19	18
FLOP WINDOW.....	19	18
FLOP WR DATA L.....	19	18
FLOP WR ENB L.....	19	18
FLOP WR PRO L.....	19	18
FLUSH L.....	11	10
FP CLK L.....	1	
FP INT.....	1	
FR.....	1	
FR L.....	1	
FS.....	1	
GATED 1MHz.....	35	34
GATED PACKET CLK L.....	32	
GATED PLO CLK H.....	42	37
GND.....	43	41 41 41 40 39 39 39 39 38 37 36 34 33 31 29 28 26
GND.....	25	24 22 21 20 20 19 19 19 18 16 15 13 12 9 7 6
GND.....	5	4 3
GO H.....	33	
GPIB ACK L.....	17	14
GPIB ATN.....	17	
GPIB DAV.....	17	
GPIB DI<1>.....	17	
GPIB DI<2>.....	17	
GPIB DI<3>.....	17	
GPIB DI<4>.....	17	
GPIB DI<5>.....	17	
GPIB DI<6>.....	17	
GPIB DI<7>.....	17	
GPIB DI<8>.....	17	
GPIB EOI.....	17	
GPIB IFC.....	17	

GPIB INT L.....	17	13
GPIB NDAC.....	17	
GPIB NRFD.....	17	
GPIB PE.....	27	17
GPIB RD.....	26	17
GPIB REN.....	17	
GPIB RQST L.....	17	14
GPIB SC.....	27	17
GPIB SRQ.....	17	
GRANT DMA.....	3	2
HDCAR.....	5	4
HEAD LD L.....	19	18
HOLD OFF L.....	5	
ICLK-4R.....	24	6 3
IDS<0>.....	40	38
IDS<1>.....	40	38
INDEX.....	44	
INIT L.....	39	36 33 24
INT ENB.....	16	13
IO MDO BUF<0>.....	43	22 11
IO MDO BUF<10>.....	43	22 11
IO MDO BUF<11>.....	43	22 11
IO MDO BUF<12>.....	43	22 11
IO MDO BUF<13>.....	43	22 11
IO MDO BUF<14>.....	43	22 11
IO MDO BUF<15>.....	43	22 11
IO MDO BUF<1>.....	43	22 11
IO MDO BUF<2>.....	43	22 11
IO MDO BUF<3>.....	43	22 11
IO MDO BUF<4>.....	43	22 11
IO MDO BUF<5>.....	43	22 11
IO MDO BUF<6>.....	43	22 11
IO MDO BUF<7>.....	43	22 11
IO MDO BUF<8>.....	43	22 11
IO MDO BUF<9>.....	43	22 11
IO MEM RQST.....	3	2 2
IO MEM WR.....	3	2
IO SEL H.....	5	4
IO SEL L.....	6	5 4
IOA<0>.....	35	34 28 5
IOA<1>.....	35	34 28 5 4
IOA<2>.....	28	
IOA<3>.....	28	
IOA<4>.....	28	
IOA<5>.....	28	
IOA<6>.....	28	
IOA<7>.....	35	28 22
IOB BUF ENB L.....	28	22
IOB ENB L.....	28	
ICB<0>.....	44	39 38 34 33 24 22 9 8 6 4 1
ICB<10>.....	44	22 6
ICB<11>.....	22	6

IOB<12>.....	22	6
IOB<13>.....	22	6
IOB<14>.....	22	6
IOB<15>.....	22	8 6 1
IOB<1>.....	44	39 38 34 33 24 22 9 8 6 4 1
IOB<2>.....	44	39 38 34 33 24 22 9 8 6 5 4
IOB<3>.....	44	39 38 34 33 24 22 9 8 6 5 4
IOB<4>.....	44	39 38 34 33 22 9 8 5 4
IOB<5>.....	44	39 38 34 33 22 9 8 5 4
IOB<6>.....	44	39 38 34 33 22 9 8 5 4
IOB<7>.....	44	39 38 34 33 22 9 8 6 4 1
IOB<8>.....	44	33 22 6
IOB<9>.....	44	22 6
IOD OUT FIFO.....	9	8
IOD OUT RDY.....	27	8
IOD<0>.....	22	
IOD<10>.....	22	
IOD<11>.....	22	
IOD<12>.....	22	
IOD<13>.....	22	
IOD<14>.....	22	
IOD<15>.....	22	
IOD<1>.....	22	
IOD<2>.....	22	
IOD<3>.....	22	
IOD<4>.....	22	
IOD<5>.....	22	
IOD<6>.....	22	
IOD<7>.....	22	
IOD<8>.....	22	
IOD<9>.....	22	
J ADDR<0>.....	30	
J ADDR<1>.....	30	
J ADDR<2>.....	30	
J ADDR<3>.....	30	
JMP<0>.....	37	36
JMP<1>.....	37	36
JMP<2>.....	37	36
JMP<3>.....	37	36
KBD DATA H.....	16	
LATCH BUF D.....	22	7
LD BIT CNT L.....	35	32 28
LD D CTRL 1.....	41	39 28
LD D CTRL 2.....	39	28
LD DF CNTR L.....	38	28
LD DF DATA L.....	38	28
LD DMA ADDR L.....	28	5
LD DMA CHAN L.....	28	4
LD FP INST L.....	28	
LD INT ENB L.....	28	24
LD NET CTRL L.....	33	28
LD NET ENB L.....	33	28

LD NET FILE L.....	28
LD UPROC DATA L.....	28 9
LD USEC CLK L.....	35 34 28
LDSR.....	38 37
LOW CUR L.....	19 18
M1 L.....	27 16 15 13 12
MA EXT A.....	5
MA OUT L.....	6 5
MADDR<10>.....	6
MADDR<11>.....	6
MADDR<12>.....	6
MADDR<13>.....	6
MADDR<14>.....	6
MADDR<15>.....	6
MADDR<16>.....	6
MADDR<17>.....	6
MADDR<18>.....	6
MADDR<19>.....	6
MADDR<2>.....	5
MADDR<3>.....	5
MADDR<4>.....	5
MADDR<5>.....	5
MADDR<6>.....	5
MADDR<7>.....	5
MADDR<8>.....	6
MADDR<9>.....	6
MATCH H.....	38 37
MDI<0>.....	43 10
MDI<10>.....	43 10
MDI<11>.....	43 10
MDI<12>.....	43 10
MDI<13>.....	43 10
MDI<14>.....	43 10
MDI<15>.....	43 10
MDI<1>.....	43 10
MDI<2>.....	43 10
MDI<3>.....	43 10
MDI<4>.....	43 10
MDI<5>.....	43 10
MDI<6>.....	43 10
MDI<7>.....	43 10
MDI<8>.....	43 10
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MDO<11>.....	22
MDO<12>.....	22
MDO<13>.....	22
MDO<14>.....	22
MDO<15>.....	22
MDO<1>.....	22
MDO<2>.....	22

MDO<3>.....	22
MDO<4>.....	22
MDO<5>.....	22
MDO<6>.....	22
MDO<7>.....	22
MDO<8>.....	22
MDO<9>.....	22
MFM.....	25 19 18
NET INT H.....	35
NET INT L.....	33
NET RQST H.....	2
NET WR H.....	2
ODD.....	7
ON CYLINDER.....	44
P IO RQST L.....	27 26 16 12
P MEM RQST L.....	26 13 12
P RESET L.....	39 36
P WR L.....	14 12
PALR7.....	6 5
PERQ INT.....	13 9
PHDCAR.....	4
PL DISK.....	43 3
PL EXT A.....	3
PL EXT B.....	3
PL NET.....	3
PL UPROC.....	11 3
PLO CLK +.....	41
PLO CLK -.....	41
PLO CLK H.....	43 42 41 40 38
PLO CLK L.....	42 41 38
PREMATCH H.....	42 38
PROC CLK H.....	42 38 37
PROC CLK L.....	42 40 36
PROM CS L.....	26
PU1.....	42 28 27 15 13 9 8 1
PU3.....	15 10 7
PU4.....	5 4 3 2
PU5.....	44 43 42 41 40 38 37 36
PU6.....	34 31
PU7.....	33
R<10>.....	6
R<11>.....	6
R<12>.....	6
R<13>.....	6
R<14>.....	6
R<15>.....	6
R<16>.....	6
R<17>.....	6
R<18>.....	6
R<19>.....	6
R<2>.....	5
R<3>.....	5

R<4>.....	5
R<5>.....	5
R<6>.....	5
R<7>.....	6 5
R<8>.....	6
R<9>.....	6
RA<1>.....	4 3 2
RA<2>.....	4 3 2
RA<3>.....	4 3 2
RAM CS L.....	26 23
RAM WE L.....	26 23
RCV ALL.....	33
RCV CLK H.....	31
RCV CLK L.....	31
RD BIT CNT L.....	35 28
RD DATA +.....	41
RD DATA -.....	41
RD DATA H.....	41 38
RD DISK STAT L.....	44 44 28
RD FP RESULT L.....	28
RD FP STAT L.....	28 1
RD GATE.....	41
RD L.....	26 21 18 16 15 14 13 12 7
RD NET STAT L.....	28
RD UPROC DATA L.....	28 13 8
RD UPROC STAT L.....	28 8
RD USEC CLK L.....	35 34 28
RESET D L.....	42 41 40 36
RESET FIFO & CRC L.....	35 32
RESET H.....	24 18 14
RESET L.....	27 24 21 17 16 15 12 9 8 7
RESET NET H.....	33
RESET NET L.....	33
RS232 CD A.....	15
RS232 CD B.....	16
RS232 CTS A.....	15
RS232 CTS B.....	16
RS232 DTR A.....	15
RS232 DTR B.....	16
RS232 RC IN A.....	15
RS232 RC IN B.....	16
RS232 RD A.....	15
RS232 RD B.....	16
RS232 RQST L.....	15
RS232 RTS A.....	15
RS232 RTS B.....	16
RS232 TC IN A.....	15
RS232 TC IN B.....	15
RS232 TC OUT A.....	15
RS232 TC OUT B.....	16
RS232 TD A.....	15
RS232 TD B.....	16

RVC DATA OUT.....	31
RW.....	4 3
RWA<1>.....	4
RWA<2>.....	4
RWA<3>.....	4
S CLK 1.....	3
S CLK 3.....	5 3
S TIME<0>.....	3
S TIME<1>.....	3
SECTOR CLK.....	42 41
SEEK ERR.....	44
SEL CLK CTRL L.....	27 21
SEL CLK DATA L.....	27 21
SEL CTC A L.....	27 15
SEL CTC B L.....	27 16
SEL DMA FLUSH L.....	27 7
SEL DMA L.....	27 14
SEL DMA START L.....	27 7
SEL FLOPPY L.....	27 18
SEL GPIB L.....	27 17
SEL INT L.....	27 13
SEL IOD RD L.....	27 9
SEL IOD STAT L.....	27 9
SEL IOD WR L.....	27 8
SEL SIO A L.....	27 15
SEL SIO B L.....	27 16
SEL USEC CLK L.....	35 34
SIDE SEL L.....	19 18
SIO ACK L.....	15 14
SIO INT ENB.....	16 15
SIO RQST L.....	15 14
SMA<0>.....	40 36
SMA<1>.....	40 36
SMD ADDR<0>.....	37 36
SMD ADDR<1>.....	37 36
SMD ADDR<2>.....	37 36
SMD ADDR<3>.....	37 36
SMD ADDR<4>.....	37 36
SMD ADDR<5>.....	37 36
SMD ADDR<6>.....	37 36
SMD ADDR<7>.....	37 36
SMD ADDR<8>.....	37 36
SPEAK DATA IN.....	20 15
SPEAKER.....	20
SPEECH CLK.....	20 15
SPEECH RQST L.....	15
SPEECH SEL L.....	27 15
STEP L.....	19 18
SYNC BITS.....	41 38
T BIT.....	39 37
T2 BIT.....	39 37
TABLET CLK.....	15

TABLET DATA L.....	15
TC IN B.....	16
TESTCLK.....	27 21
TOP DISK.....	43 3
TOP EXT A L.....	3
TOP EXT B L.....	3
TOP NET.....	3
TOP UPROC.....	10 3
TRANSMIT H.....	33
TZ CLK.....	17 16 15 14 13 12 9 7
UNIT READY.....	44
UNIT SEL L.....	19 18
UNLD DISK RQST L.....	40 3
UNLD EXT A RQST L.....	5 3
UNLD EXT B RQST L.....	3
UNLD NET RQST L.....	3
UNLD UPROC RQST L.....	7 3
UPROC ENB.....	24 8
UPROC INT L.....	8
UPROC RDY.....	9 8
UPROC RDY ENB.....	24 9
UPROC RDY INT L.....	9
UPROC RQST H.....	7 2
UPROC WR H.....	27 7 2
USEC CLK OVFL H.....	35 34
USEC I<2>.....	35 34
WA<1>.....	4 3
WA<2>.....	4 3
WA<3>.....	4 3
WAIT H.....	42 37
WCLK.....	25 18
WCNT L.....	5 4
WHI L.....	6 5
WLO L.....	6 5
WR CLK +.....	41
WR CLK -.....	41
WR DATA.....	43 38
WR DATA +.....	41
WR DATA -.....	41
WR GATE.....	41
WR L.....	27 26 18 17 16 15 13 12 7
WREG L.....	5 4
X CONST ENB L.....	30 29
X MUX<0>.....	30
X MUX<1>.....	30
X MUX<2>.....	30
X MUX<3>.....	30
X SEL<0>.....	29
X SEL<1>.....	29
Y MUX<0>.....	30
Y MUX<1>.....	30
Y MUX<2>.....	30

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Y MUX<3>.....	30
Y SEL<3>.....	30
Z CLK.....	16 15 12
Z80 INT L.....	16 15 13 12
Z80 WAIT L.....	14 12

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This Run Was made using the following files:

110198.PART

e44.WL  
e43.WL  
e42.WL  
e41.WL  
e40.WL  
e39.WL  
e38.WL  
e37.WL  
e36.WL  
e35.WL  
e34.WL  
e33.WL  
e32.WL  
e31.WL  
e30.WL  
e29.WL  
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e15.WL  
e14.WL  
e13.WL  
e12.WL  
e11.WL  
e10.WL  
e09.WL  
e08.WL  
e07.WL  
e06.WL  
e05.WL  
e04.WL  
e03.WL  
e02.WL  
e01.WL

Number Of Nets = 924  
Begin Wirelist

1: R35-2 B1-1 .%B1-1

2: U200-4 U109-19 U203-4 U181-4 U109-15  
 2: U110-1 U181-5 U203-5 U164-15 U163-7  
 2: U149-3 U149-12 U150-13 U148-11 U218-12  
 2: U217-12 U215-2 U217-1 U236-13 U216-15  
 2: U217-2 U220-12 U221-12 U219-12 U146-15  
 2: U123-4 U146-2 U146-13 U146-3 U123-6  
 2: U123-5 U65-1 U46-1 U126-24 U126-25  
 2: C103-2 U158-22 U143-1 U112-19 U143-15  
 2: U143-4 U158-23 U157-22 U157-23 U22-1  
 2: U22-3 U16-19 U15-19 U86-6 JA43-1  
 2: JA41-1 JA39-1 JA37-1 JA35-1 JA33-1  
 2: JA31-1 JA29-1 JA3-1 JA1-1 JA5-1 JA7-1  
 2: JA9-1 JA25-1 JA23-1 JA21-1 JA19-1  
 2: JA17-1 JA15-1 JA13-1 JA11-1 JA27-1  
 2: JA45-1 JA47-1 JA49-1 U187-15 R7-2  
 2: C139-2 C159-2 U227-3 U225-15 U225-13  
 2: R12-2 C121-2 R13-2 U225-1 U225-2  
 2: U227-4 U227-5 U227-10 U227-11 U227-12  
 2: U227-7 U227-6 B1-2 C36-1 C35-1 U168-1  
 2: U242-1 U243-1 U161-1 U108-3 U108-4  
 2: U175-7 U175-3 U175-4 U175-5 U175-11  
 2: U175-14 U175-12 U122-22 U233-5 U230-13  
 2: U230-10 U230-11 U114-15 C19-2 U196-1  
 2: U1-27 U4-15 U1-29 U1-25 U1-23 U1-13  
 2: U47-5 JP3-1 U7-7 JP2-1 U7-4 U5-15  
 2: U26-15 U2-15 U24-15 U58-15 U34-1  
 2: U39-1 U77-4 U77-5 U60-2 U59-2 U112-1  
 2: JB33-1 U12-1 U12-19 JB35-1 JB37-1  
 2: JB38-1 JB1-1 JB3-1 JB5-1 JB7-1 JB9-1  
 2: JB11-1 JB13-1 JB15-1 JB17-1 JB19-1  
 2: JB21-1 JB23-1 JB25-1 JB27-1 JB29-1  
 2: JB31-1 JB41-1 JB44-1 JB47-1 JB50-1  
 2: C137-2 Q1-1 C136-2 U68-9 U19-5 U19-3  
 2: U19-11 U19-10 U19-15 U19-1 U32-1  
 2: U8-4 U18-3 U18-5 U18-8 U223-9 U202-12  
 2: .!GND

3: R12-1 C125-2 .%C125-2

4: U225-4 C135-1 .%C135-1

5: R6-1 C135-2 .%C135-2

6: C124-1 U187-7 R8-1 C153-1 .%C153-1

7: U225-10 C153-2 .%C153-2

8: U62-1 D1-2 D2-2 .%D2-2

9: C19-1 R29-1 .%R29-1

10: D2-1 R35-1	.%R35-1
11: R6-2 U227-2 R7-1	.%R7-1
12: U16-4 RN5-5	.%RN5-5
13: U205-5 RN9-5	.%RN9-5
14: U188-12 RN9-7	.%RN9-7
15: U188-9 RN9-8	.%RN9-8
16: U190-12 RN9-9	.%RN9-9
17: U4-10 U1-35	.%U1-35
18: U4-13 U1-37	.%U1-37
19: U10-5 U14-5 U10-6 U10-7	.%U10-7
20: U33-6 U107-1	.%U107-1
21: U127-8 U107-11	.%U107-11
22: U108-11 U108-9	.%U108-9
23: U31-6 U11-15	.%U11-15
24: U6-12 U6-8 U11-4	.%U11-4
25: U109-11 U110-13	.%U110-13
26: U109-12 U110-14	.%U110-14
27: U109-13 U110-17	.%U110-17
28: U109-14 U110-18	.%U110-18
29: U109-1 U110-2	.%U110-2
30: U109-6 U110-3	.%U110-3
31: U109-7 U110-4	.%U110-4
32: U109-2 U110-5	.%U110-5
33: U109-8 U110-7	.%U110-7
34: U109-9 U110-8	.%U110-8
35: U93-5 U115-1	.%U115-1

36: U50-8 U115-2	.%U115-2
37: U49-6 U115-3	.%U115-3
38: U118-12 U118-5	.%U118-5
39: U13-5 U12-2	.%U12-2
40: U13-19 U12-8	.%U12-8
41: U82-3 U123-11	.%U123-11
42: U82-4 U83-4 U123-9	.%U123-9
43: U126-26 U124-5	.%U124-5
44: U128-2 U124-8	.%U124-8
45: RN1-3 U126-12	.%U126-12
46: U82-5 U127-10	.%U127-10
47: U82-8 U127-7	.%U127-7
48: U203-10 U128-8	.%U128-8
49: U12-13 U13-12	.%U13-12
50: U12-11 U13-15	.%U13-15
51: U112-6 U13-16	.%U13-16
52: U12-4 U13-2	.%U13-2
53: U12-17 U13-6	.%U13-6
54: U12-15 U13-9	.%U13-9
55: U16-11 U131-10	.%U131-10
56: U145-29 U131-11	.%U131-11
57: U145-39 U131-13	.%U131-13
58: U86-5 U131-2	.%U131-2
59: U162-1 U131-4	.%U131-4
60: U126-22 U131-8	.%U131-8
61: U44-10 U133-1	.%U133-1

62: U42-4 U134-3	.%U134-3
63: U19-9 U14-2	.%U14-2
64: RN8-3 U144-17	.%U144-17
65: U130-9 U130-10 U144-27	.%U144-27
66: U128-4 U145-16	.%U145-16
67: U15-15 U145-36	.%U145-36
68: U172-5 U146-12	.%U146-12
69: U238-1 U237-2 U147-21	.%U147-21
70: U25-6 U148-7	.%U148-7
71: U150-18 U149-1	.%U149-1
72: U150-2 U149-10	.%U149-10
73: U150-3 U149-11	.%U149-11
74: U150-16 U149-16	.%U149-16
75: U150-17 U149-17	.%U149-17
76: U150-19 U149-2	.%U149-2
77: U150-11 U149-7	.%U149-7
78: U150-1 U149-8	.%U149-8
79: U145-33 U16-16 U15-16	.%U15-16
80: U145-27 U15-17	.%U15-17
81: U145-34 U16-18 U15-18	.%U15-18
82: U145-35 U15-7	.%U15-7
83: U145-37 U15-8	.%U15-8
84: U145-17 U15-9	.%U15-9
85: RN8-10 U157-11	.%U157-11
86: U205-8 U157-12	.%U157-12
87: U189-4 U157-16	.%U157-16

88: U205-3 U157-18	.%U157-18
89: U205-6 U157-19	.%U157-19
90: RN1-8 U158-11	.%U158-11
91: U190-8 U158-12	.%U158-12
92: U192-3 U158-13	.%U158-13
93: U207-9 U158-16	.%U158-16
94: U190-3 U158-18	.%U158-18
95: U190-6 U158-19	.%U158-19
96: U112-7 U158-29	.%U158-29
97: U172-8 U158-33	.%U158-33
98: U143-7 U158-34	.%U158-34
99: U172-11 U158-35	.%U158-35
100: U158-28 U161-4 U112-8 U158-27 U159-13	
100:	.%U159-13
101: U193-4 U159-17	.%U159-17
102: U22-7 U16-17	.%U16-17
103: U145-38 U15-6 U16-8	.%U16-8
104: U157-28 U157-27 U160-13	.%U160-13
105: U160-14 RN1-5 U160-11 U160-16	.%U160-16
106: R5-2 U161-16	.%U161-16
107: U152-17 U162-3	.%U162-3
108: U234-13 U162-8	.%U162-8
109: U148-16 U163-1	.%U163-1
110: U148-13 U163-13	.%U163-13
111: U148-14 U163-14	.%U163-14
112: U148-15 U163-15	.%U163-15

113: U148-17 U163-2	.%U163-2
114: U148-18 U163-3	.%U163-3
115: U148-19 U163-4	.%U163-4
116: U165-10 U164-11	.%U164-11
117: U165-2 U164-2	.%U164-2
118: U165-7 U164-5	.%U164-5
119: U181-9 U166-13	.%U166-13
120: U123-1 U172-6	.%U172-6
121: U196-20 U173-2	.%U173-2
122: U201-6 U196-10 U173-3	.%U173-3
123: U173-1 U173-5	.%U173-5
124: U202-6 U176-1	.%U176-1
125: U132-10 U176-11	.%U176-11
126: U42-1 U176-3	.%U176-3
127: U17-8 U18-1	.%U18-1
128: U17-6 U18-10	.%U18-10
129: U166-4 U181-10	.%U181-10
130: U166-9 U181-14	.%U181-14
131: R10-2 R9-1 U187-11	.%U187-11
132: C121-1 R13-1 U187-10 U187-5 U187-12	
132:	.%U187-12
133: R9-2 U187-3	.%U187-3
134: R11-2 U187-4	.%U187-4
135: C124-2 R8-2 U187-6	.%U187-6
136: RN1-7 U189-12 U189-5 U189-10	.%U189-10
137: U157-15 U189-2	.%U189-2
138: U157-17 U189-9	.%U189-9

139: U192-2 U190-11	.%U190-11
140: RN9-6 U190-5	.%U190-5
141: U195-11 U191-11	.%U191-11
142: U199-15 U191-13	.%U191-13
143: U215-6 U191-5	.%U191-5
144: U159-10 U192-1	.%U192-1
145: U189-13 U157-14 U192-11	.%U192-11
146: U160-17 U192-13	.%U192-13
147: U160-10 U193-1	.%U193-1
148: U215-4 U193-11	.%U193-11
149: U205-11 U193-2	.%U193-2
150: U157-13 U193-3	.%U193-3
151: U188-8 U193-5	.%U193-5
152: U83-6 U194-11	.%U194-11
153: U197-17 U195-10	.%U195-10
154: U197-16 U195-12	.%U195-12
155: U197-3 U195-2	.%U195-2
156: U197-2 U195-5	.%U195-5
157: U197-1 U195-7	.%U195-7
158: U196-3 U196-2	.%U196-2
159: U213-9 U199-6 U197-12	.%U197-12
160: U199-4 U213-10 U197-13	.%U197-13
161: U199-3 U213-11 U197-14	.%U197-14
162: U199-12 U197-15	.%U197-15
163: U201-1 U200-11	.%U200-11
164: U200-14 U201-2	.%U201-2

165: U193-8 U201-4	.%U201-4
166: U224-15 U201-8	.%U201-8
167: U245-23 U245-14 U244-14 U224-14 U202-10	
167:	.%U202-10
168: U204-2 U202-11	.%U202-11
169: U223-15 U202-8	.%U202-8
170: U201-10 U202-9	.%U202-9
171: U180-2 U203-1	.%U203-1
172: U204-5 U203-12	.%U203-12
173: U180-7 U203-2	.%U203-2
174: U180-10 U203-3	.%U203-3
175: U204-9 U203-9	.%U203-9
176: U203-11 U204-3	.%U204-3
177: RN9-10 U205-12	.%U205-12
178: U193-6 U158-14 U207-13	.%U207-13
179: U158-15 U207-2	.%U207-2
180: U158-17 U207-4	.%U207-4
181: U209-4 U208-15	.%U208-15
182: U145-25 U16-15 U21-1	.%U21-1
183: U22-5 U21-15 U21-12	.%U21-12
184: U145-30 U21-13	.%U21-13
185: U21-10 U22-6 U21-5	.%U21-5
186: U22-4 U21-7	.%U21-7
187: U108-12 U210-2	.%U210-2
188: U210-10 U210-6 U151-4 RN2-9 U108-7	
188: U108-10 U210-1 U108-1 U175-9 U151-15	
188: U151-10 U151-3 U151-2 U151-11 U151-12	
188: U151-14 U175-1 U175-2 U108-6 U108-5	

188: U210-5 U210-4 U210-3 U210-9 U210-7 .%U210-7  
188:  
189: U228-10 U214-13 .%U214-13  
190: U219-16 U214-15 .%U214-15  
191: U219-17 U214-16 .%U214-16  
192: U219-1 U214-17 .%U214-17  
193: U219-2 U214-18 .%U214-18  
194: U228-8 U215-3 .%U215-3  
195: U191-1 U215-5 .%U215-5  
196: U236-18 U217-16 .%U217-16  
197: U236-19 U217-17 .%U217-17  
198: U236-16 U218-1 .%U218-1  
199: U236-15 U218-17 .%U218-17  
200: U236-17 U218-2 .%U218-2  
201: U145-32 U22-14 .%U22-14  
202: U145-31 U22-2 .%U22-2  
203: U235-15 U221-2 .%U221-2  
204: U245-15 U222-8 .%U222-8  
205: U222-4 U222-12 U224-9 U223-1 .%U223-1  
206: U245-1 U245-10 U244-10 U224-10 U223-10 .%U223-10  
206:  
207: U222-9 U244-23 U223-14 .%U223-14  
208: U204-1 U201-9 U223-23 .%U223-23  
209: U222-13 U224-1 .%U224-1  
210: U222-10 U244-15 U224-23 .%U224-23  
211: C139-1 U227-1 .%U227-1  
212: C126-1 U227-8 .%U227-8

213: U175-15 U228-12	.%U228-12
214: U203-13 U228-5	.%U228-5
215: U59-3 U60-3 U23-11	.%U23-11
216: U114-7 U23-4	.%U23-4
217: U208-9 U233-4	.%U233-4
218: U221-16 U234-17	.%U234-17
219: U221-17 U234-18	.%U234-18
220: U221-1 U234-19	.%U234-19
221: U162-11 U235-12	.%U235-12
222: U176-6 U235-13	.%U235-13
223: U220-16 U235-16	.%U235-16
224: U220-17 U235-17	.%U235-17
225: U220-1 U235-18	.%U235-18
226: U220-2 U235-19	.%U235-19
227: U147-30 U237-12	.%U237-12
228: U147-29 U237-13	.%U237-13
229: U147-28 U237-14	.%U237-14
230: U147-27 U237-15	.%U237-15
231: U147-26 U237-16	.%U237-16
232: U147-25 U237-17	.%U237-17
233: U147-24 U237-18	.%U237-18
234: U147-23 U237-19	.%U237-19
235: U147-22 U237-20	.%U237-20
236: U147-31 U238-12	.%U238-12
237: U147-32 U238-13	.%U238-13
238: U147-33 U238-14	.%U238-14

239: U147-34 U238-15	.%U238-15
240: U147-35 U238-16	.%U238-16
241: U147-36 U238-17	.%U238-17
242: U147-37 U238-18	.%U238-18
243: U147-38 U238-19	.%U238-19
244: U47-3 U24-12	.%U24-12
245: U47-2 U24-13	.%U24-13
246: U47-1 U24-14	.%U24-14
247: U17-3 U240-19	.%U240-19
248: U222-5 U244-1	.%U244-1
249: U222-11 U244-9	.%U244-9
250: U93-8 U223-16 U224-16 U244-16 U245-16	
250:	.%U245-16
251: U201-11 U223-8 U224-8 U244-8 U245-8	
251:	.%U245-8
252: U222-6 U245-9	.%U245-9
253: U30-17 U115-5 U25-12	.%U25-12
254: JB20-1 U25-8	.%U25-8
255: U28-8 U27-11	.%U27-11
256: U49-2 U27-5	.%U27-5
257: U49-5 U28-5	.%U28-5
258: U27-1 U28-6	.%U28-6
259: U1-1 U3-13	.%U3-13
260: U1-3 U3-14	.%U3-14
261: U1-18 U3-17	.%U3-17
262: U1-20 U3-18	.%U3-18
263: U4-12 U3-7	.%U3-7

264: U1-39 U3-8	.%U3-8
265: U115-4 U30-1	.%U30-1
266: U29-12 U30-13	.%U30-13
267: U29-15 U30-14	.%U30-14
268: U115-6 U30-16	.%U30-16
269: U29-19 U30-18	.%U30-18
270: U29-2 U30-7	.%U30-7
271: U29-6 U30-8	.%U30-8
272: U28-11 U31-1	.%U31-1
273: U33-1 U31-19	.%U31-19
274: U11-17 U31-5	.%U31-5
275: U11-13 U31-9	.%U31-9
276: U33-2 U32-2	.%U32-2
277: U33-4 U32-4	.%U32-4
278: U145-14 U33-11	.%U33-11
279: U31-16 U33-3	.%U33-3
280: U127-9 U33-5	.%U33-5
281: U38-6 U39-11	.%U39-11
282: U40-5 U59-5 U39-12	.%U39-12
283: U38-5 U39-13	.%U39-13
284: U40-4 U59-7 U39-14	.%U39-14
285: U38-4 U39-15	.%U39-15
286: U40-3 U59-9 U39-16	.%U39-16
287: U38-3 U39-17	.%U39-17
288: U40-2 U59-11 U39-18	.%U39-18
289: U38-13 U39-2	.%U39-2

290: U38-12 U39-4	.%U39-4
291: U38-11 U39-6	.%U39-6
292: U38-10 U39-8	.%U39-8
293: U1-7 U4-1	.%U4-1
294: U1-33 U4-6	.%U4-6
295: U39-9 U60-11 U40-10	.%U40-10
296: U39-7 U60-9 U40-11	.%U40-11
297: U39-5 U60-7 U40-12	.%U40-12
298: U39-3 U60-5 U40-14	.%U40-14
299: U42-2 U42-3	.%U42-3
300: U45-4 U62-12 U46-11	.%U46-11
301: U45-1 U62-10 U46-15	.%U46-15
302: U45-2 U62-9 U46-17	.%U46-17
303: U23-3 U46-19	.%U46-19
304: U65-2 U48-5	.%U48-5
305: U65-5 U48-6	.%U48-6
306: U65-6 U48-7	.%U48-7
307: U65-9 U48-8	.%U48-8
308: U50-9 U50-1 U49-4	.%U49-4
309: U7-9 U5-12	.%U5-12
310: U134-9 U50-11	.%U50-11
311: U50-6 U50-13	.%U50-13
312: U30-12 U51-12	.%U51-12
313: U59-13 U60-13 U58-12	.%U58-12
314: U59-1 U60-1 U58-4	.%U58-4
315: U59-15 U60-15 U58-7	.%U58-7

316: U59-14 U60-14 U58-9	.%U58-9
317: U1-22 U6-2	.%U6-2
318: U45-3 U46-13 U62-11	.%U62-11
319: X2-2 C35-2 U62-17	.%U62-17
320: U45-11 U80-12 U62-18	.%U62-18
321: U45-9 U80-16 U62-3	.%U62-3
322: U45-5 U80-2 U62-4	.%U62-4
323: U45-6 U80-5 U62-5	.%U62-5
324: U45-7 U80-6 U62-6	.%U62-6
325: U45-8 U80-15 U62-7	.%U62-7
326: U65-12 U64-5	.%U64-5
327: U65-15 U64-6	.%U64-6
328: U65-16 U64-7	.%U64-7
329: U65-19 U64-8	.%U64-8
330: U33-12 U66-10	.%U66-10
331: U40-15 U66-11	.%U66-11
332: U66-1 U66-8	.%U66-8
333: U66-3 U67-3	.%U67-3
334: U5-13 U7-10	.%U7-10
335: U5-14 U7-11	.%U7-11
336: U58-5 U77-2	.%U77-2
337: U58-2 U77-3	.%U77-3
338: U58-11 U77-6	.%U77-6
339: U58-14 U77-7	.%U77-7
340: U45-10 U80-9	.%U80-9
341: U82-1 U44-7 U81-4	.%U81-4

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342: U83-2 U82-2	.%U82-2
343: U118-2 U83-11	.%U83-11
344: U174-14 U83-3	.%U83-3
345: U51-5 U84-10	.%U84-10
346: U88-5 U84-12	.%U84-12
347: U67-9 U84-13	.%U84-13
348: U67-5 U84-9	.%U84-9
349: U31-2 U85-8	.%U85-8
350: U46-14 U86-1	.%U86-1
351: U131-5 U86-7	.%U86-7
352: U90-4 U88-3	.%U88-3
353: U90-5 U89-8	.%U89-8
354: U12-6 U9-16	.%U9-16
355: U39-19 U90-1	.%U90-1
356: U134-1 U202-1 U91-6	.%U91-6
357: U62-16 C36-2 X2-1	.%X2-1
358: U207-14 U189-14 U227-14 C159-1	.+12V
359: J94-1 R4-2 R11-1 R10-1 U225-14 C125-1	
359: D1-1 U122-27 U122-26 U122-1	.+5V
360: U207-1 U189-1 R29-2 J99-1 Q1-2 C137-1	
360:	.-12V
361: U225-8 Q1-3 C136-1 U8-12	.-5V
362: U210-12 U211-11	.1 MHZ
363: U151-9 *** Only one pin in net	.10 MHZ H
364: U151-7 *** Only one pin in net	.10 MHZ L
365: U225-12 U210-13	.2 MHZ

366: U151-5 U151-13 .20 MHZ  
367: U46-2 U46-4 U21-9 U210-14 U175-6  
367: .4 MHZ  
368: U151-1 U90-6 U108-2 .40 MHZ  
369: U145-19 U86-3 U108-13 .8 MHZ  
370: U161-14 U126-27 U143-3 U143-5 U159-19  
370: U157-34 U160-19 U147-6 U145-5 U106-1  
370: U105-1 U104-1 U103-1 U102-1 U101-1  
370: U99-1 U100-1 U122-10 U174-1 U81-1  
370: .A<0>  
371: U144-40 U107-6 U106-16 U105-16 U104-16  
371: U103-16 U102-16 U101-16 U99-16 U100-16  
371: U122-21 .A<10>  
372: U144-1 U107-9 U106-17 U105-17 U104-17  
372: U103-17 U102-17 U101-17 U99-17 U100-17  
372: U122-23 .A<11>  
373: U144-2 U107-12 U106-18 U105-18 U104-18  
373: U103-18 U102-18 U101-18 U99-18 U100-18  
373: U122-2 .A<12>  
374: U144-3 U107-15 U106-19 U105-19 U104-19  
374: U103-19 U102-19 U101-19 U99-19 U100-19  
374: U125-7 .A<13>  
375: U144-4 U107-16 U125-8 .A<14>  
376: U144-5 U107-19 U125-9 .A<15>  
377: U161-12 U172-10 U159-20 U157-33 U160-20  
377: U147-7 U106-2 U105-2 U104-2 U103-2  
377: U102-2 U101-2 U99-2 U100-2 U122-9  
377: U174-2 U81-2 .A<1>  
378: U32-12 U147-8 U106-3 U105-3 U104-3  
378: U103-3 U102-3 U101-3 U99-3 U100-3  
378: U122-8 U174-3 U81-3 U133-2 .A<2>  
379: U32-14 U106-4 U105-4 U104-4 U103-4  
379: U102-4 U101-4 U99-4 U100-4 U122-7  
379: U81-5 U83-1 U133-3 .A<3>  
380: U144-34 U127-37 U106-5 U105-5 U104-5  
380: U103-5 U102-5 U101-5 U99-5 U100-5  
380: U122-6 U44-1 .A<4>

381: U144-35 U127-38 U106-6 U105-6 U104-6  
381: U103-6 U102-6 U101-6 U99-6 U100-6  
381: U122-5 U44-2 .A<5>  
  
382: U144-36 U127-39 U106-7 U105-7 U104-7  
382: U103-7 U102-7 U101-7 U99-7 U100-7  
382: U122-4 U44-3 .A<6>  
  
383: U144-37 U127-40 U106-13 U105-13 U104-13  
383: U103-13 U102-13 U101-13 U99-13 U100-13  
383: U122-3 U44-5 .A<7>  
  
384: U144-38 U107-2 U106-14 U105-14 U104-14  
384: U103-14 U102-14 U101-14 U99-14 U100-14  
384: U122-25 .A<8>  
  
385: U144-39 U107-5 U106-15 U105-15 U104-15  
385: U103-15 U102-15 U101-15 U99-15 U100-15  
385: U122-24 .A<9>  
  
386: U173-12 .AD15  
\*\*\* Only one pin in net  
\*\*\* Run Has no outputs  
  
387: U1-34 U2-6 .ADDR DATA<0>  
388: U1-36 U2-7 .ADDR DATA<1>  
389: U1-38 U2-8 .ADDR DATA<2>  
390: U1-40 U2-9 .ADDR DATA<3>  
391: U1-2 U2-11 .ADDR DATA<4>  
392: U1-4 U2-12 .ADDR DATA<5>  
393: U1-17 U2-13 .ADDR DATA<6>  
394: U1-19 U2-14 .ADDR DATA<7>  
395: U1-21 U24-6 .ADDR DATA<8>  
  
396: U163-6 U218-3 U217-3 U220-3 U221-3  
396: U240-17 U219-3 .ADDR<0>  
  
397: U149-6 U164-4 U148-2 U218-6 U217-6  
397: U220-6 U221-6 U219-6 U240-11 .ADDR<1>  
  
398: U149-4 U164-7 U148-3 U218-4 U217-4  
398: U220-4 U221-4 U219-4 U240-13 .ADDR<2>  
  
399: U149-5 U164-9 U148-4 U218-5 U217-5

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399: U220-5 U221-5 U219-5 U240-15	.ADDR<3>
400: U12-16 JB2-1 RN3-3	.B<0>
401: U12-18 JB4-1 RN3-4	.B<1>
402: U12-3 JB6-1 RN3-5	.B<2>
403: U12-5 JB8-1 RN3-6	.B<3>
404: U12-9 JB24-1 RN3-8	.BA<0>
405: U12-7 JB28-1 RN3-7	.BA<1>
406: U211-17 *** Only one pin in net	.BC INSTR ENB
407: U211-16 *** Only one pin in net	.BC INSTR<0>
408: U211-15 *** Only one pin in net	.BC INSTR<1>
409: U211-14 *** Only one pin in net	.BC INSTR<2>
410: U26-6 U34-3 U29-3 U51-2 U31-3	.BR<0>
411: U26-7 U34-4 U29-4 U31-4	.BR<1>
412: U26-8 U34-7 U29-7 U31-7	.BR<2>
413: U26-9 U34-8 U29-8 U50-2 U31-8	.BR<3>
414: U26-11 U34-13 U29-13 U31-13	.BR<4>
415: U26-12 U34-14 U29-14 U31-14	.BR<5>
416: U26-13 U34-17 U29-17 U31-17	.BR<6>
417: U26-14 U34-18 U29-18 U31-18	.BR<7>
418: U167-5 U185-5 U170-5 U168-2	.BUF D<0>
419: U167-6 U185-6 U170-6 U168-5	.BUF D<1>
420: U167-7 U185-7 U170-7 U168-6	.BUF D<2>
421: U167-8 U185-8 U170-8 U168-9	.BUF D<3>
422: U152-5 U186-5 U171-5 U168-12	.BUF D<4>

423: U152-6 U186-6 U171-6 U168-15 .BUF D<5>  
 424: U152-7 U186-7 U171-7 U168-16 .BUF D<6>  
 425: U152-8 U186-8 U171-8 U168-19 .BUF D<7>  
 426: U144-23 U82-9 U172-9 U125-11 .BUS ACK L  
 427: U162-13 U146-9 .BUS CTRL  
 428: U12-14 JB26-1 RN3-2 .BUS ENB  
 429: RN8-5 U144-25 U82-6 .BUS RQST L  
 430: U57-17 .BUSY  
 \*\*\* Only one pin in net  
 \*\*\* Run Has no outputs  
 431: U176-10 U191-6 U17-1 .C/P ENB H  
 432: U91-4 U91-5 .CAR SENSE L  
 \*\*\* Run Has no outputs  
 433: U133-11 U142-9 U139-9 U142-16 U139-16  
 433: .CLK IN H  
 434: U133-12 U140-16 U140-9 U141-9 U141-16  
 434: .CLK IN L  
 435: U133-9 U186-19 U185-1 .CLK OUT H  
 436: U133-10 U171-19 U170-1 .CLK OUT L  
 437: U176-9 U65-11 U140-1 U141-19 U139-1  
 437: U142-19 U204-13 U204-11 U228-4 U132-9  
 437: .CLK-4F  
 438: U161-2 U228-3 J176-1 .CLK-7R  
 439: U243-11 U242-11 U204-10 U209-5 U193-10  
 439: U23-13 .CLKOR  
 440: U199-9 U195-9 U200-5 U110-11 U149-14  
 440: U149-13 U148-1 U218-13 U217-13 U218-14  
 440: U217-14 U220-14 U221-14 U219-14 U219-13  
 440: U220-13 U221-13 U204-12 .CLKORB  
 441: U34-6 U18-4 .CLR CRC H  
 442: U236-12 U228-11 U162-9 U176-4 .CO<1>  
 443: U162-10 U176-5 U214-12 .CO<2>

444: U132-6 J39-1 .COM NET INT L  
445: U14-9 U19-6 .CRC BITS  
446: U51-9 U17-9 .CRC CLK ENB H  
447: U7-1 U18-13 .CRC ERR H  
448: U19-7 U18-11 .CRC IN  
449: U19-13 U18-12 .CRC OUT  
450: U197-4 U199-10 U200-6 .D GRANT H  
451: U127-3 RN1-9 U125-6 .D MEM RD L  
452: RN1-10 U127-4 U125-5 .D MEM WR L  
453: JP2-2 RN6-8 U7-15 U11-2 U66-9 .D SEL<0>  
454: U7-14 RN6-7 JP3-2 U85-4 .D SEL<1>  
455: U48-14 U139-14 U140-14 RN10-2 U144-14  
455: U126-11 U107-3 U127-30 U159-8 U158-40  
455: U160-8 U157-40 U147-10 U145-6 U80-3  
455: U46-3 U168-3 U106-12 U106-8 U122-11  
455: U174-13 .D<0>  
456: U48-13 U139-13 U140-13 RN10-3 U144-15  
456: U126-10 U107-4 U127-29 U159-7 U158-1  
456: U160-7 U157-1 U147-11 U145-7 U80-4  
456: U46-5 U168-4 U105-12 U105-8 U122-12  
456: .D<1>  
457: U48-12 U139-12 U140-12 RN10-4 U144-12  
457: U126-9 U107-7 U127-28 U159-6 U158-39  
457: U160-6 U157-39 U147-12 U145-8 U80-7  
457: U46-7 U168-7 U104-12 U104-8 U122-13  
457: .D<2>  
458: U48-11 U139-11 U140-11 RN10-5 U144-8  
458: U126-8 U107-8 U127-27 U159-5 U158-2  
458: U160-5 U157-2 U147-13 U145-9 U80-14  
458: U46-9 U168-8 U103-12 U103-8 U122-15  
458: .D<3>  
459: U64-14 U142-14 U141-14 RN10-6 U144-7  
459: U126-7 U107-13 U127-26 U159-4 U158-38  
459: U160-4 U157-38 U147-14 U145-10 U80-17  
459: U168-13 U102-12 U102-8 U122-16 .D<4>

460: U64-13 U142-13 U141-13 RN10-7 U144-9  
460: U126-6 U107-14 U127-23 U159-3 U158-3  
460: U160-3 U157-3 U147-15 U145-11 U80-8  
460: U168-14 U101-12 U101-8 U122-17 .D<5>  
  
461: U64-12 U85-7 U142-12 U141-12 RN10-8  
461: U144-10 U126-5 U107-17 U127-22 U159-2  
461: U158-37 U160-2 U157-37 U147-16 U145-12  
461: U80-13 U168-17 U100-12 U100-8 U122-18  
461: .D<6>  
  
462: U64-11 U85-9 U142-11 U141-11 RN10-9  
462: U144-13 U126-4 U107-18 U127-21 U159-1  
462: U158-4 U160-1 U157-4 U147-17 U145-13  
462: U168-18 U99-12 U99-8 U122-19 .D<7>  
  
463: U161-6 U144-30 U127-32 .DA<0>  
464: U161-8 U144-31 U127-33 .DA<1>  
465: U32-8 U144-32 U127-34 .DA<2>  
466: U32-6 U144-33 U127-35 .DA<3>  
  
467: U14-12 U223-7 U245-7 U244-7 U224-7  
467: .DATA INTO FIFO  
\*\*\* Run Has no outputs  
  
468: U15-14 RN6-2 JA34-1 .DIR L  
469: U1-14 U7-6 .DISK CC L  
470: U9-12 U84-11 .DISK INT ENB  
471: J179-1 U84-8 .DISK INT L  
472: U195-6 U68-17 .DISK RQST H  
473: U213-14 U68-15 .DISK WR H  
474: U68-4 U31-15 .DISK WR OP H  
475: U128-12 U131-3 U127-15 .DMA ACK L  
476: U83-13 U133-15 U162-12 U123-2 .DMA FIFO L  
477: U146-6 U186-2 .DMA IR  
478: U146-5 U142-17 .DMA OR  
479: U146-7 U127-16 .DMA RQST L

480: U158-36 U125-16	.DP IO RQST L
481: JB18-1 U12-12 RN6-9	.DRIVE SEL<0>
482: U112-14 JB16-1 RN6-10	.DRIVE SEL<1>
483: U30-2 U17-4 U19-14	.DS<0>
484: U30-5 U17-5 U19-2	.DS<1>
485: U66-6 U47-4	.EMIT NOW
486: U47-14 U34-11	.EMIT<1>
487: U47-13 U29-11 U50-3 U27-3	.EMIT<2>
488: U47-12 U31-11 U51-3	.EMIT<3>
489: U47-9 U68-1 U68-19	.EMIT<6>
490: U132-1 U111-9	.ENB BIT CNT H
491: U114-9 *** Only one pin in net	.ENB IN FIFO<0> L
492: U114-10 *** Only one pin in net	.ENB IN FIFO<1> L
493: U110-19 U216-14 U115-8 U166-1 U191-4 493: U191-2	.ENB MA H
494: U114-11 *** Only one pin in net	.ENB NET FIFO L
495: U194-5 U132-3	.ENB NET INT H
496: U203-6 U110-15	.ENB PL
497: U110-16 U181-6	.ENB TOP
498: U111-6 U211-1	.ENB USEC CLK H
499: U111-5 U132-4	.ENB USEC INT H
500: U128-13 U146-14 U126-18 U125-13	.END DMA INT
501: U128-11 U162-2 U126-23 U127-36 RN1-2 501: U128-5	.EOP L
502: J103-1 U195-13	.EXT A RQST H
503: U213-1 J154-1	.EXT A WR H

504: U193-13 U129-14	.EXT ADDR L
505: J173-1 U195-4 R1-2	.EXT B RQST H
506: U213-2 J174-1	.EXT B WR H
507: U4-5 U9-2	.F<0>
508: U4-11 U9-5	.F<1>
509: U4-14 U9-6	.F<2>
510: U58-3 U34-9	.FA<0>
511: U58-6 U34-12	.FA<1>
512: U58-10 U34-15	.FA<2>
513: U58-13 U34-16	.FA<3>
514: JB34-1 U11-6 RN4-4	.FAULT
515: U29-5 U223-11 U224-11 U244-11 U245-11	
515:	.FIFO CLR L
516: U30-9 U201-13	.FIFO IN CLK ENB H
517: U30-6 U93-10	.FIFO OUT CLK ENB H
518: U127-25 U128-6 U145-15	.FLOP ACK L
519: U15-11 RN5-6 JA20-1	.FLOP INDEX L
520: U126-21 U145-18	.FLOP INT
521: JA46-1 U46-6 RN5-8	.FLOP RD DATA L
522: U15-13 RN5-7 JA22-1	.FLOP RDY L
523: U127-19 U33-10	.FLOP RQST L
524: U16-13 U131-12 U15-1	.FLOP RW
525: U145-23 U131-6	.FLOP SEP DATA
526: U16-7 U16-1	.FLOP SK
527: U15-4 RN5-4 JA42-1	.FLOP TK<0> L
528: U15-2 RN5-3 JA10-1	.FLOP TWO SIDED L

529: U145-22 U86-2	.FLOP WINDOW
530: U16-3 JA38-1	.FLOP WR DATA L
531: U16-5 JA40-1	.FLOP WR ENB L
532: U16-2 RN5-2 JA44-1	.FLOP WR PRO L
533: U172-4 U172-3 U170-18 U171-18 U186-18	
533: U185-18 U140-18 U141-18 U142-18 U139-18	
533:	.FLUSH L
534: U173-11	.FP CLK L
*** Only one pin in net	
*** Run Has no outputs	
535: U57-15	.FP INT
*** Only one pin in net	
*** Run Has no outputs	
536: U33-9 U57-11	.FR
*** Run Has no outputs	
537: U33-8	.FR L
*** Only one pin in net	
538: U57-13	.FS
*** Only one pin in net	
*** Run Has no outputs	
539: U201-5 U211-19	.GATED 1MHZ
540: U132-13	.GATED PACKET CLK L
*** Only one pin in net	
*** Run Has no outputs	
541: U66-5 U93-6 U49-13	.GATED PLO CLK H
542: U88-9	.GO H
*** Only one pin in net	
543: U127-24 U147-2	.GPIB ACK L
544: J42-1 U237-9	.GPIB ATN
545: J144-1 U237-7	.GPIB DAV
546: J48-1 U238-2	.GPIB DI<1>
547: J147-1 U238-3	.GPIB DI<2>
548: J47-1 U238-4	.GPIB DI<3>

549: J146-1 U238-5	.GPIB DI<4>
550: J38-1 U238-6	.GPIB DI<5>
551: J138-1 U238-7	.GPIB DI<6>
552: J139-1 U238-8	.GPIB DI<7>
553: J41-1 U238-9	.GPIB DI<8>
554: J46-1 U237-8	.GPIB EOI
555: J43-1 U237-4	.GPIB IFC
556: U131-9 RN1-4 U147-9	.GPIB INT L
557: J143-1 U237-5	.GPIB NDAC
558: J44-1 U237-6	.GPIB NRFD
559: U238-11 U174-9	.GPIB PE
560: U147-5 U125-15	.GPIB RD
561: J141-1 U237-3	.GPIB REN
562: U127-18 U147-1	.GPIB RQST L
563: U237-1 U174-7	.GPIB SC
564: J142-1 U237-10	.GPIB SRQ
565: U199-11 J171-1 U109-18	.GRANT DMA
566: U150-12 U216-13	.HDCAR
567: U15-5 JA18-1	.HEAD LD L
568: J148-1 U216-1	.HOLD OFF L
569: U128-9 U166-10 U166-5 U166-12 U114-1	
569: U23-5 U17-2 U161-18	.ICLK-4R
570: U34-2 U30-3	.IDS<0>
571: U34-5 U30-4	.IDS<1>
572: JB10-1 RN4-3 U6-11	.INDEX
573: U129-1 U111-1 J72-1 U194-1 U28-2	
573: U13-1 U9-1	.INIT L

574: U126-13 U157-7	.INT ENB
575: U140-5 U242-2 U223-3	.IO MDO BUF<0>
576: U139-7 U243-6 U244-5	.IO MDO BUF<10>
577: U139-8 U243-9 U244-6	.IO MDO BUF<11>
578: U142-5 U243-12 U245-3	.IO MDO BUF<12>
579: U142-6 U243-15 U245-4	.IO MDO BUF<13>
580: U142-7 U243-16 U245-5	.IO MDO BUF<14>
581: U142-8 U243-19 U245-6	.IO MDO BUF<15>
582: U140-6 U242-5 U223-4	.IO MDO BUF<1>
583: U140-7 U242-6 U223-5	.IO MDO BUF<2>
584: U140-8 U242-9 U223-6	.IO MDO BUF<3>
585: U141-5 U242-12 U224-3	.IO MDO BUF<4>
586: U141-6 U242-15 U224-4	.IO MDO BUF<5>
587: U141-7 U242-16 U224-5	.IO MDO BUF<6>
588: U141-8 U242-19 U224-6	.IO MDO BUF<7>
589: U139-5 U243-2 U244-3	.IO MDO BUF<8>
590: U139-6 U243-5 U244-4	.IO MDO BUF<9>
591: R1-1 U197-11 J178-1 U213-15 R2-1	
591: U213-4 U213-7 U195-1 U197-8 U197-10	
591: U109-17	.IO MEM RQST
592: U213-5 J153-1 U109-16	.IO MEM WR
593: U179-15 U115-10	.IO SEL H
594: U150-14 U164-1 U148-8 U236-14 U166-3	
594: U234-14 U235-14 U214-14	.IO SEL L
595: U216-10 U209-1 U233-1 J69-1 U230-2	
595: U196-12 U211-7	.IOA<0>
596: U163-12 U216-11 U209-2 U233-2 J169-1	
596: U230-3 U196-13 U211-8	.IOA<1>

597: U209-3 U233-3 J68-1 U230-4 .IOA<2>  
 598: U208-1 J168-1 U230-5 .IOA<3>  
 599: U208-2 J67-1 U230-6 .IOA<4>  
 600: U208-4 J167-1 U230-7 .IOA<5>  
 601: U208-6 J66-1 U230-8 .IOA<6>  
 602: U232-1 U231-1 U208-3 J166-1 U230-9  
 602: U211-9 .IOA<7>  
 603: U232-19 U231-19 U230-19 .IOB BUF ENB L  
 604: U208-5 J71-1 U230-1 .IOB ENB L  
 605: U57-9 U165-4 U235-9 U167-14 U65-3  
 605: U231-2 U129-4 U194-2 U111-3 U196-4  
 605: U77-15 U60-4 U13-3 U9-3 U11-3 .IOB<0>  
 606: U214-8 U232-4 U85-16 .IOB<10>  
 607: U214-9 U232-5 .IOB<11>  
 608: U235-5 U232-6 .IOB<12>  
 609: U235-6 U232-7 .IOB<13>  
 610: U235-7 U232-8 .IOB<14>  
 611: U57-3 U235-8 U161-3 U232-9 .IOB<15>  
 612: U57-5 U165-5 U234-5 U167-13 U65-4  
 612: U231-3 U129-5 U111-4 U196-5 U77-1  
 612: U60-6 U13-4 U9-4 U11-5 .IOB<1>  
 613: U165-12 U236-5 U234-6 U167-12 U65-7  
 613: U231-4 U129-12 U111-7 U196-6 U77-10  
 613: U60-10 U13-7 U9-7 U11-7 .IOB<2>  
 614: U165-13 U236-6 U234-7 U167-11 U65-8  
 614: U231-5 U129-13 U111-8 U196-7 U77-9  
 614: U60-12 U13-8 U9-8 U85-12 .IOB<3>  
 615: U150-5 U148-6 U236-7 U152-14 U65-13  
 615: U231-6 U111-13 U196-16 U59-4 U13-13  
 615: U9-13 U11-12 .IOB<4>  
 616: U150-6 U25-3 U236-8 U152-13 U65-14  
 616: U231-7 U111-14 U196-17 U59-6 U13-14  
 616: U9-14 U11-14 .IOB<5>

617: U150-7 U25-5 U236-9 U152-12 U65-17  
617: U231-8 U111-17 U196-18 U59-10 U13-17  
617: U9-17 U11-9 .IOB<6>  
  
618: U57-7 U150-8 U25-4 U214-5 U161-5  
618: U152-11 U65-18 U231-9 U111-18 U196-19  
618: U59-12 U13-18 U9-18 U85-14 .IOB<7>  
  
619: U214-6 U232-2 U88-12 U11-16 .IOB<8>  
  
620: U214-7 U232-3 U11-18 .IOB<9>  
  
621: U152-2 U85-11 .IOD OUT FIFO  
  
622: U161-17 U162-5 U174-4 .IOD OUT RDY  
  
623: U231-18 J64-1 .IOD<0>  
  
624: U232-16 J58-1 .IOD<10>  
  
625: U232-15 J158-1 .IOD<11>  
  
626: U232-14 J57-1 .IOD<12>  
  
627: U232-13 J157-1 .IOD<13>  
  
628: U232-12 J56-1 .IOD<14>  
  
629: U232-11 J156-1 .IOD<15>  
  
630: U231-17 J164-1 .IOD<1>  
  
631: U231-16 J63-1 .IOD<2>  
  
632: U231-15 J163-1 .IOD<3>  
  
633: U231-14 J62-1 .IOD<4>  
  
634: U231-13 J162-1 .IOD<5>  
  
635: U231-12 J61-1 .IOD<6>  
  
636: U231-11 J161-1 .IOD<7>  
  
637: U232-18 J59-1 .IOD<8>  
  
638: U232-17 J159-1 .IOD<9>  
  
639: U32-11 .J ADDR<0>  
\*\*\* Only one pin in net  
\*\*\* Run Has no outputs

640: U32-13 *** Only one pin in net *** Run Has no outputs	.J ADDR<1>
641: U32-15 *** Only one pin in net *** Run Has no outputs	.J ADDR<2>
642: U32-17 U57-2 *** Run Has no outputs	.J ADDR<3>
643: U1-12 U24-11	.JMP<0>
644: U1-11 U24-9	.JMP<1>
645: U1-9 U24-8	.JMP<2>
646: U1-8 U24-7	.JMP<3>
647: J197-1 RN1-6 U157-29	.KBD DATA H
648: U118-8 U168-11	.LATCH BUF D
649: U230-17 U176-13 U211-4	.LD BIT CNT L
650: U230-22 U9-11 U28-12	.LD D CTRL 1
651: U230-23 U13-11 U25-11 U25-10 U25-9 651:	.LD D CTRL 2
652: U230-20 U77-11	.LD DF CNTR L
653: U230-21 U77-14 U58-1 U23-12	.LD DF DATA L
654: U216-12 U115-9 U166-2 U230-16	.LD DMA ADDR L
655: U165-9 U209-15	.LD DMA CHAN L
656: U209-14 *** Only one pin in net	.LD FP INST L
657: U129-9 U209-10	.LD INT ENB L
658: U209-13 U111-11 U88-11	.LD NET CTRL L
659: U209-12 U194-3	.LD NET ENB L
660: U208-14 *** Only one pin in net	.LD NET FILE L
661: U64-19 U48-1 U209-11	.LD UPROC DATA L

662: U230-18 U193-9 U211-6	.LD USEC CLK L
663: U5-8 U66-12	.LDSR
664: U16-12 RN6-4 JA2-1	.LOW CUR L
665: U130-8 U124-2 U158-8 U157-8 U44-6	
665:	.M1 L
666: U191-3 J54-1	.MA EXT A
667: U176-8 U239-19 U239-1 U241-19 U241-1	
667: U240-1	.MA OUT L
668: J31-1 U240-16 U240-5	.MADDR<10>
669: J131-1 U240-18 U240-3	.MADDR<11>
670: J29-1 U241-12	.MADDR<12>
671: J129-1 U241-14	.MADDR<13>
672: J28-1 U241-16	.MADDR<14>
673: J128-1 U241-18	.MADDR<15>
674: J27-1 U241-3	.MADDR<16>
675: J127-1 U241-5	.MADDR<17>
676: J26-1 U241-7	.MADDR<18>
677: J126-1 U241-9	.MADDR<19>
678: U239-5 J36-1	.MADDR<2>
679: U239-3 J136-1	.MADDR<3>
680: U239-18 J34-1	.MADDR<4>
681: U239-16 J134-1	.MADDR<5>
682: U239-14 J33-1	.MADDR<6>
683: U239-12 J133-1	.MADDR<7>
684: J32-1 U240-12 U240-9	.MADDR<8>
685: J132-1 U240-14 U240-7	.MADDR<9>
686: U7-3 U27-12 U90-2	.MATCH H

687: U170-14 J14-1 U223-21	.MDI<0>
688: U185-12 J8-1 U244-19	.MDI<10>
689: U185-11 J108-1 U244-18	.MDI<11>
690: U186-14 J7-1 U245-21	.MDI<12>
691: U186-13 J107-1 U245-20	.MDI<13>
692: U186-12 J6-1 U245-19	.MDI<14>
693: U186-11 J106-1 U245-18	.MDI<15>
694: U170-13 J114-1 U223-20	.MDI<1>
695: U170-12 J13-1 U223-19	.MDI<2>
696: U170-11 J113-1 U223-18	.MDI<3>
697: U171-14 J12-1 U224-21	.MDI<4>
698: U171-13 J112-1 U224-20	.MDI<5>
699: U171-12 J11-1 U224-19	.MDI<6>
700: U171-11 J111-1 U224-18	.MDI<7>
701: U185-14 J9-1 U244-21	.MDI<8>
702: U185-13 J109-1 U244-20	.MDI<9>
703: U242-3 J24-1	.MDO<0>
704: U243-7 J18-1	.MDO<10>
705: U243-8 J118-1	.MDO<11>
706: U243-13 J17-1	.MDO<12>
707: U243-14 J117-1	.MDO<13>
708: U243-17 J16-1	.MDO<14>
709: U243-18 J116-1	.MDO<15>
710: U242-4 J124-1	.MDO<1>
711: U242-7 J23-1	.MDO<2>
712: U242-8 J123-1	.MDO<3>

713: U242-13 J22-1	.MDO<4>
714: U242-14 J122-1	.MDO<5>
715: U242-17 J21-1	.MDO<6>
716: U242-18 J121-1	.MDO<7>
717: U243-3 J19-1	.MDO<8>
718: U243-4 J119-1	.MDO<9>
719: U145-26 U131-1 U175-10	.MFM
720: U132-2 *** Only one pin in net *** Run Has no outputs	.NET INT H
721: U88-13 *** Only one pin in net *** Run Has no outputs	.NET INT L
722: R2-2 U191-12 U199-14	.NET RQST H
723: U199-13 *** Only one pin in net *** Run Has no outputs	.NET WR H
724: U123-14 U133-14	.ODD
725: JB22-1 U11-11 RN4-6 U66-2	.ON CYLINDER
726: RN8-6 U144-20 U157-36 U125-4 U44-4 726:	.P IO RQST L
727: RN8-7 U144-19 U124-4 U125-3	.P MEM RQST L
728: U28-1 U9-9	.P RESET L
729: U130-5 RN8-9 U130-4 U144-22 U127-2 729:	.P WR L
730: U218-16 U214-19	.PALR7
731: U128-3 U64-17 U126-19	.PERQ INT
732: U148-9 U150-15	.PHDCAR
733: U128-10 U223-2 U224-2 U244-2 U245-2 733:	.PL DISK

734: U204-6 J104-1 .PL EXT A  
 735: U228-6 J74-1 .PL EXT B  
 736: U204-4 .PL NET  
 \*\*\* Only one pin in net  
 737: U204-8 U142-1 U139-19 U141-1 U140-19 .PL UPROC  
 737: .PL UPROC  
 738: U8-9 JB45-1 U8-1 .PLO CLK +  
 739: JB46-1 U8-2 .PLO CLK -  
 740: U14-11 U51-11 U8-11 U8-3 U14-3 U93-4  
 740: U49-1 U90-11 U134-11 U93-9 U201-12 .PLO CLK H  
 740: .PLO CLK H  
 741: U40-6 U28-10 U38-8 U17-10 U90-10 .PLO CLK L  
 741: .PLO CLK L  
 742: U27-9 U49-3 .PREMATCH H  
 743: U66-4 U66-13 U49-9 .PROC CLK H  
 744: U6-3 U3-11 U1-31 U30-11 U49-7 .PROC CLK L  
 745: U122-20 U125-17 .PROM CS L  
 746: U173-10 U173-13 U167-19 U152-19 U124-12  
 746: U124-10 U48-19 U64-1 RN2-2 U124-1  
 746: U158-6 U159-14 U159-11 U159-16 U81-6  
 746: U233-6 U209-6 U134-13 U134-10 .PU1  
 746: .PU1  
 747: U118-4 U194-10 U194-12 RN2-4 U123-3  
 747: U123-7 U123-10 U118-10 U118-13 U118-1  
 747: U170-19 U171-1 U186-1 U185-19 U143-6  
 747: U207-12 U207-5 U207-10 .PU3  
 747: .PU3  
 748: U213-3 U199-1 RN2-5 U178-1 U180-1  
 748: U165-1 U150-9 U150-4 U215-1 .PU4  
 748: .PU4  
 749: U6-4 RN2-6 U1-32 U1-15 U47-6 U7-2  
 749: U27-13 U27-10 U14-13 U14-10 U28-9  
 749: U38-9 U40-9 U51-10 U51-13 U14-1 U14-4  
 749: U18-2 U50-12 U27-4 U50-10 U49-10  
 749: U49-12 U49-11 U202-13 U67-12 U88-2  
 749: U67-2 U6-13 U6-10 U51-4 U67-10 U67-4  
 749: U88-4 .PU5  
 749: .PU5  
 750: U134-2 RN2-7 U134-4 U202-4 U202-2  
 750: U196-15 .PU6

751: U194-4 U88-10 *** Run Has no outputs	.PU7
752: U214-3 U240-4 U219-10	.R<10>
753: U214-4 U240-2 U219-11	.R<11>
754: U235-11 U220-7 U241-8	.R<12>
755: U235-1 U220-8 U241-6	.R<13>
756: U235-2 U220-10 U241-4	.R<14>
757: U235-3 U220-11 U241-2	.R<15>
758: U235-4 U221-7 U241-17	.R<16>
759: U234-11 U221-8 U241-15	.R<17>
760: U234-1 U221-10 U241-13	.R<18>
761: U234-2 U221-11 U241-11	.R<19>
762: U217-10 U236-11 U239-15	.R<2>
763: U239-17 U236-1 U217-11	.R<3>
764: U239-2 U218-7 U236-2	.R<4>
765: U239-4 U218-8 U236-3	.R<5>
766: U239-6 U218-10 U236-4	.R<6>
767: U239-8 U218-11 U214-11	.R<7>
768: U214-1 U240-8 U219-7	.R<8>
769: U214-2 U240-6 U219-8	.R<9>
770: U197-5 U199-2 U200-1 U178-4 U179-2 770:	.RA<1>
771: U197-6 U199-5 U200-2 U178-5 U179-5 771:	.RA<2>
772: U197-7 U199-7 U200-3 U178-12 U179-11 772:	.RA<3>
773: U106-11 U105-11 U104-11 U103-11 U102-11 773: U101-11 U99-11 U100-11 U125-18	.RAM CS L

774: U106-9 U105-9 U104-9 U103-9 U102-9  
 774: U101-9 U99-9 U100-9 U125-19 .RAM WE L  
 775: U111-16 .RCV ALL  
 \*\*\* Only one pin in net  
 776: U134-6 .RCV CLK H  
 \*\*\* Only one pin in net  
 777: U134-5 .RCV CLK L  
 \*\*\* Only one pin in net  
 778: U230-14 U211-3 .RD BIT CNT L  
 779: R32-2 JB48-1 U8-6 .RD DATA +  
 780: R32-1 U8-7 JB49-1 .RD DATA -  
 781: U38-1 U38-2 U8-5 .RD DATA H  
 782: U233-12 U11-19 U11-1 U85-1 U88-1  
 782: U51-1 U67-1 U67-13 .RD DISK STAT L  
 783: U233-14 .RD FP RESULT L  
 \*\*\* Only one pin in net  
 784: U57-19 U233-15 .RD FP STAT L  
 785: JB36-1 U32-16 RN6-6 .RD GATE  
 786: U146-11 RN8-8 U144-21 U126-3 U127-1  
 786: U159-22 U158-32 U160-22 U157-32 U145-2  
 786: U23-2 U125-2 .RD L  
 787: U233-13 .RD NET STAT L  
 \*\*\* Only one pin in net  
 788: U167-16 U152-16 U167-9 U152-9 U126-20  
 788: U233-11 .RD UPROC DATA L  
 789: U161-19 U233-10 .RD UPROC STAT L  
 790: U230-15 U196-9 U211-5 .RD USEC CLK L  
 791: U28-3 U6-1 U3-1 U68-18 U29-1 U28-13  
 791: U49-15 U50-4 U28-4 U49-14 .RESET D L  
 792: U176-12 U211-2 .RESET FIFO & CRC L  
 \*\*\* Run Has no outputs  
 793: U127-13 U145-1 U129-11 .RESET H

794: U172-2 U167-18 U152-18 U48-18 U64-18  
794: U144-26 U158-21 U157-21 U147-19 U80-1  
794: U129-10 U174-15 .RESET L  
  
795: U112-16 .RESET NET H  
\*\*\* Only one pin in net  
  
796: U111-15 U112-4 .RESET NET L  
797: U190-4 J87-1 .RS232 CD A  
798: U205-4 J193-1 .RS232 CD B  
799: U190-1 J86-1 .RS232 CTS A  
800: U205-1 J192-1 .RS232 CTS B  
801: U207-8 J82-1 .RS232 DTR A  
802: J188-1 U189-8 .RS232 DTR B  
803: U190-13 J182-1 .RS232 RC IN A  
804: U205-13 J196-1 .RS232 RC IN B  
805: U190-10 J84-1 .RS232 RD A  
806: U205-10 J191-1 .RS232 RD B  
807: U143-13 U143-12 U158-10 .RS232 RQST L  
808: U207-6 J184-1 .RS232 RTS A  
809: J189-1 U189-6 .RS232 RTS B  
810: J83-1 U188-10 .RS232 TC IN A  
811: J186-1 U188-13 .RS232 TC IN B  
812: U207-11 J181-1 .RS232 TC OUT A  
813: J187-1 U189-11 .RS232 TC OUT B  
814: U207-3 J183-1 .RS232 TD A  
815: J88-1 U189-3 .RS232 TD B  
816: U202-3 .RVC DATA OUT  
\*\*\* Only one pin in net  
\*\*\* Run Has no outputs  
817: U109-5 U110-12 U179-1 .RW

818: U179-4 U164-3 U163-11	.RWA<1>
819: U179-7 U164-6 U163-10	.RWA<2>
820: U179-9 U164-10 U163-9	.RWA<3>
821: U114-5 U180-9	.S CLK 1
822: U178-9 U23-6 U228-9	.S CLK 3
823: U114-2 U109-3 U110-6	.S TIME<0>
824: U109-4 U114-3 U110-9	.S TIME<1>
825: JB14-1 RN4-2 U134-12	.SECTOR CLK
826: U33-13 JB32-1 U11-8 RN4-5	.SEEK ERR
827: U80-11 U81-9	.SEL CLK CTRL L
828: U23-1 U23-10 U81-7	.SEL CLK DATA L
829: U159-21 U133-4	.SEL CTC A L
830: U160-21 U133-5	.SEL CTC B L
831: U172-1 U81-11	.SEL DMA FLUSH L
832: U127-11 U44-12	.SEL DMA L
833: U83-5 U81-12	.SEL DMA START L
834: U145-4 U44-13	.SEL FLOPPY L
835: U147-3 U44-15	.SEL GPIB L
836: U126-1 U44-9	.SEL INT L
837: U124-13 U48-9 U64-9 U48-16 U64-16	
837: U81-15	.SEL IOD RD L
838: U85-19 U81-13	.SEL IOD STAT L
839: U83-12 U167-1 U152-1 U81-14	.SEL IOD WR L
840: U172-13 U44-14	.SEL SIO A L
841: U157-35 U44-11	.SEL SIO B L
842: U196-8 U173-4 U211-12	.SEL USEC CLK L

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843: U15-3 JA14-1	.SIDE SEL L
844: U127-14 U172-12 U143-14	.SIO ACK L
845: U158-7 U157-6	.SIO INT ENB
846: U127-17 U143-9	.SIO RQST L
847: U4-7 U3-3 U25-1 U25-2	.SMA<0>
848: U4-9 U3-4 U25-13	.SMA<1>
849: U3-2 U26-1 U5-1 U24-1 U2-1	.SMD ADDR<0>
850: U3-5 U26-2 U5-2 U24-2 U2-2	.SMD ADDR<1>
851: U3-6 U26-3 U5-3 U24-3 U2-3	.SMD ADDR<2>
852: U3-9 U26-4 U5-4 U24-4 U2-4	.SMD ADDR<3>
853: U3-12 U26-5 U5-5 U24-5 U2-5	.SMD ADDR<4>
854: U3-15 U26-16 U5-16 U24-16 U2-16	.SMD ADDR<5>
855: U3-16 U26-17 U5-17 U24-17 U2-17	.SMD ADDR<6>
856: U3-19 U26-18 U5-18 U24-18 U2-18	.SMD ADDR<7>
857: U6-5 U5-19 U24-19 U2-19 U26-19	.SMD ADDR<8>
858: U158-26 U187-13	.SPEAK DATA IN
859: J81-1 C126-2	.SPEAKER
860: U112-12 U187-14	.SPEECH CLK
861: U143-11 U143-10 U158-30	.SPEECH RQST L
862: U143-2 U174-5	.SPEECH SEL L
863: U15-12 RN6-3 JA36-1	.STEP L
864: U40-13 U19-4 U19-12	.SYNC BITS
865: U7-12 U9-15	.T BIT
866: U7-13 U9-19	.T2 BIT
867: C103-1 R5-1 J92-1	.TABLET CLK
868: U112-13 J93-1 R4-1	.TABLET DATA L

869: U192-12 .TC IN B  
 \*\*\* Only one pin in net  
 \*\*\* Run Has no outputs

870: U80-18 U23-8 .TESTCLK

871: U166-6 U223-17 U224-17 U244-17 U245-17  
 871: U223-13 U224-13 U244-13 U245-13 .TOP DISK

872: J4-1 U181-12 .TOP EXT A L

873: U181-13 J73-1 .TOP EXT B L

874: U166-8 .TOP NET  
 \*\*\* Only one pin in net

875: U166-11 U186-16 U185-16 U171-16 U170-16  
 875: U170-9 U171-9 U186-9 U185-9 .TOP UPROC

876: U111-12 .TRANSMIT H  
 \*\*\* Only one pin in net

877: U118-3 U118-11 U124-11 U46-16 U124-3  
 877: U127-12 U159-18 U159-15 U159-9 U160-18  
 877: U160-15 U160-9 U147-18 .TZ CLK

878: U85-6 JB12-1 U90-3 RN4-7 U67-11 .UNIT READY

879: U16-9 JA26-1 .UNIT SEL L

880: U200-10 U68-16 .UNLD DISK RQST L

881: J137-1 U200-12 U193-12 .UNLD EXT A RQST L

882: J37-1 U200-13 .UNLD EXT B RQST L

883: U201-3 .UNLD NET RQST L  
 \*\*\* Only one pin in net

884: U200-9 U194-13 .UNLD UPROC RQST L

885: U162-4 U129-2 .UPROC ENB

886: J53-1 U162-6 .UPROC INT L

887: U161-15 U83-9 U128-1 U85-13 .UPROC RDY

888: U83-10 U129-7 .UPROC RDY ENB

889: J172-1 U83-8 .UPROC RDY INT L

890: U195-3 U194-9 .UPROC RQST H

891: U213-13 U146-1 U133-13 U174-6	.UPROC WR H
892: U173-6 U132-5	.USEC CLK OVFL H
893: U196-14 U211-18	.USEC I<2>
894: U178-2 U180-4 U181-1 U179-3	.WA<1>
895: U178-7 U180-5 U181-2 U179-6	.WA<2>
896: U178-10 U180-12 U181-3 U179-10	.WA<3>
897: U5-11 U27-2	.WAIT H
898: U145-21 U228-13 U175-13	.WCLK
899: U149-15 U216-2	.WCNT L
900: U216-4 U221-15	.WHI L
901: U218-15 U217-15 U216-3 U220-15 U219-15	
901:	.WLO L
902: U8-10 JB42-1	.WR CLK +
903: JB43-1 *** Only one pin in net	.WR CLK -
904: U40-1 U224-22 U244-22 U245-22 U223-22	
904:	.WR DATA
905: JB39-1 U10-3 U10-4	.WR DATA +
906: JB40-1 U10-1 U10-2	.WR DATA -
907: JB30-1 U32-18 RN6-5	.WR GATE
908: U146-10 U130-6 U126-2 U159-23 U160-23	
908: U147-4 U145-3 U125-1 U23-9	.WR L
909: U148-5 U216-5	.WREG L
910: U114-12 U57-1	.X CONST ENB L
911: U57-12 *** Only one pin in net	.X MUX<0>
912: U57-14 *** Only one pin in net	.X MUX<1>
913: U57-16	.X MUX<2>

\*\*\* Only one pin in net

914: U57-18 .X MUX<3>  
\*\*\* Only one pin in net

915: U114-14 .X SEL<0>  
\*\*\* Only one pin in net  
\*\*\* Run Has no outputs

916: U114-13 .X SEL<1>  
\*\*\* Only one pin in net  
\*\*\* Run Has no outputs

917: U32-9 .Y MUX<0>  
\*\*\* Only one pin in net

918: U32-7 .Y MUX<1>  
\*\*\* Only one pin in net

919: U32-5 .Y MUX<2>  
\*\*\* Only one pin in net

920: U32-3 .Y MUX<3>  
\*\*\* Only one pin in net

921: U32-19 .Y SEL<3>  
\*\*\* Only one pin in net  
\*\*\* Run Has no outputs

922: U46-18 U144-6 R3-2 U158-20 U157-20 .Z CLK  
922:

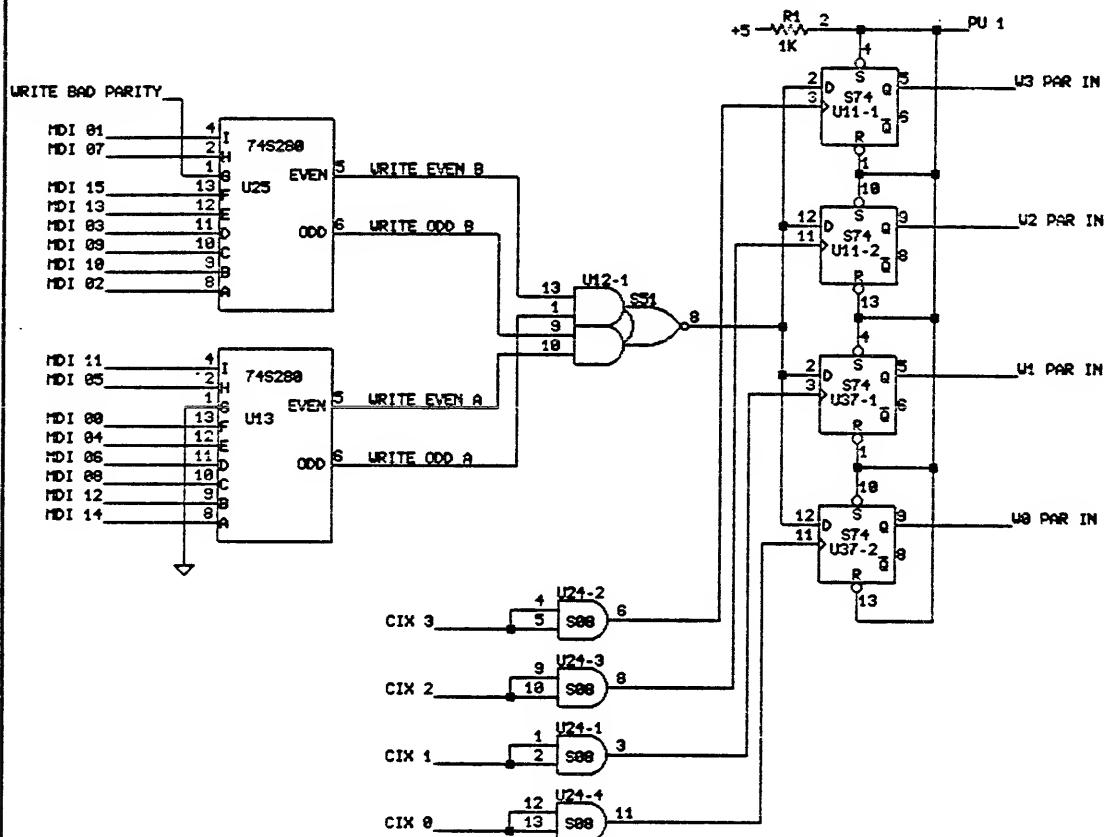
923: RN8-4 U144-16 U126-17 U158-5 U157-5 .Z80 INT L  
923:

924: RN8-2 U144-24 U127-6 .Z80 WAIT L

MULTI MEG LANDSCAPE		Word 0		Word 1		Word 2		Word 3					
		MEM 0,4	RAS 0	CAS A	1	MEM 1,5	RAS 0	CAS A	1	MEM 2,6	RAS 0	CAS A	1
		BITS	DATA	BANK A		BANK A		BANK A		BANK A		BANK A	
		0	1	U1		U3		U5		U7			
		1	2	U14		U16		U18		U20			
		2	4	U27		U29		U31		U33			
		3	10	U40		U42		U44		U46			
		4	20	U53		U55		U57		U59			
		5	40	U65		U67		U69		U71			
		6	100	U78		U80		U82		U84			
		7	200	U91		U93		U95		U97			
		8	400	U104		U106		U108		U110			
		9	1K	U117		U119		U121		U123			
		10	2K	U131		U133		U135		U137			
		11	4K	U144		U146		U148		U150			
		12	10K	U157		U159		U161		U163			
		13	20K	U170		U172		U174		U176			
		14	40K	U182		U184		U186		U188			
		15	100K	U196		U198		U200		U202			
	P	PAR		U209		U211		U213		U215			

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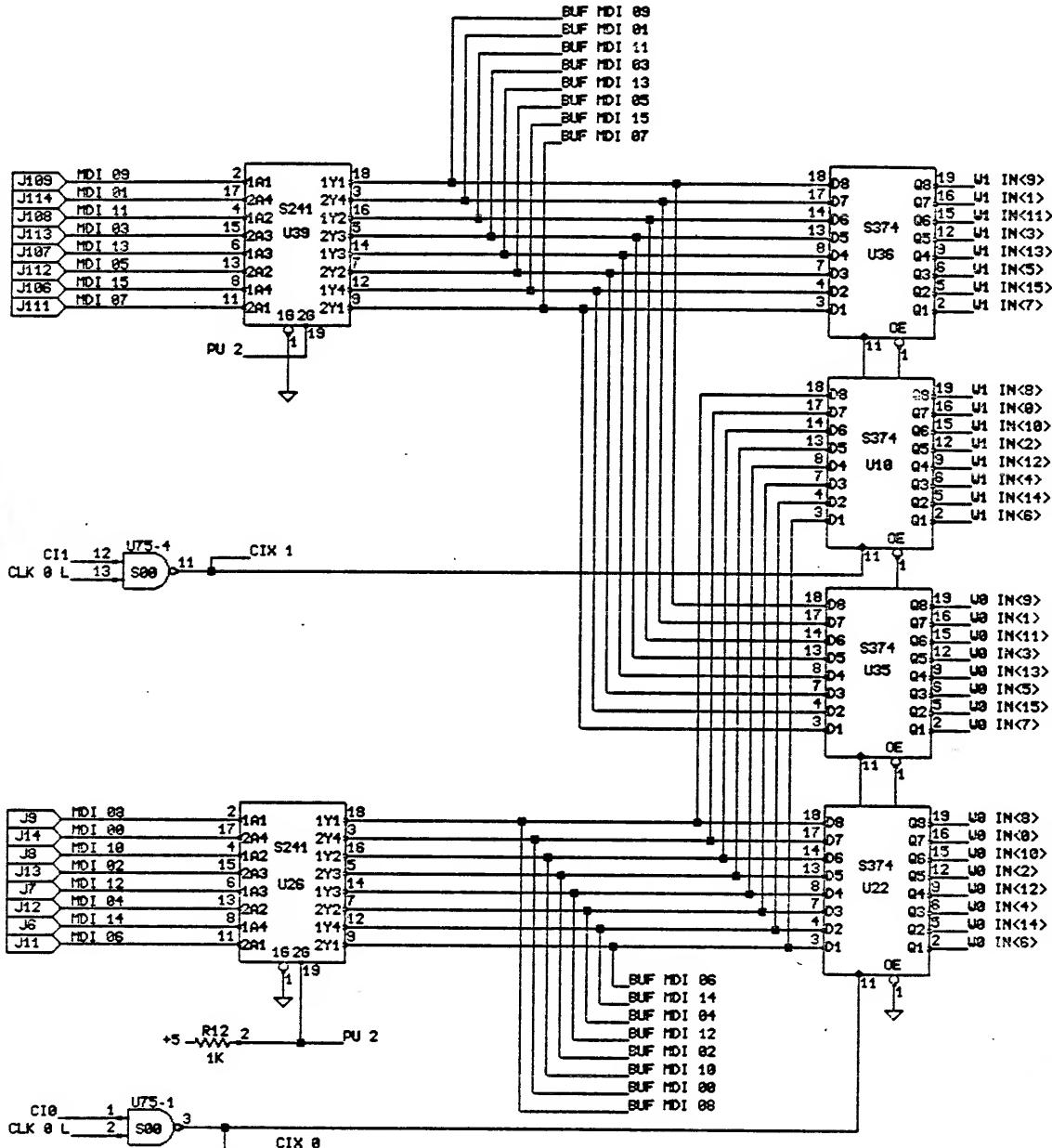
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PERO	DESIGNED	RUSS SCHUER		SIZE	CODE	IDENTIFICATION		VAR	REV
	DRAWN	CERTICH	22 Mar 84	A	11	0245		02	A
	UPDATED	CERTICH	03 Jan 85	PROJ :	2 MEGABYTE LANDSCAPE / u/256k MEMORY				PAGE 1 OF 1



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TITLE MEMORY DATA IN PARITY CALCULATION LMEM01

PERO	DESIGNED	RICK SCHWER	SIZE	CODE	IDENTIFICATION	VAR	REV
	DRAUN	27 DEC 84	STECK	A	1 1	8 2 4 5 -	8 2
	UPDATED			PROJ :	2 MEGABYTE LANDSCAPE MEMORY u/256k	PAGE 1	OF 27



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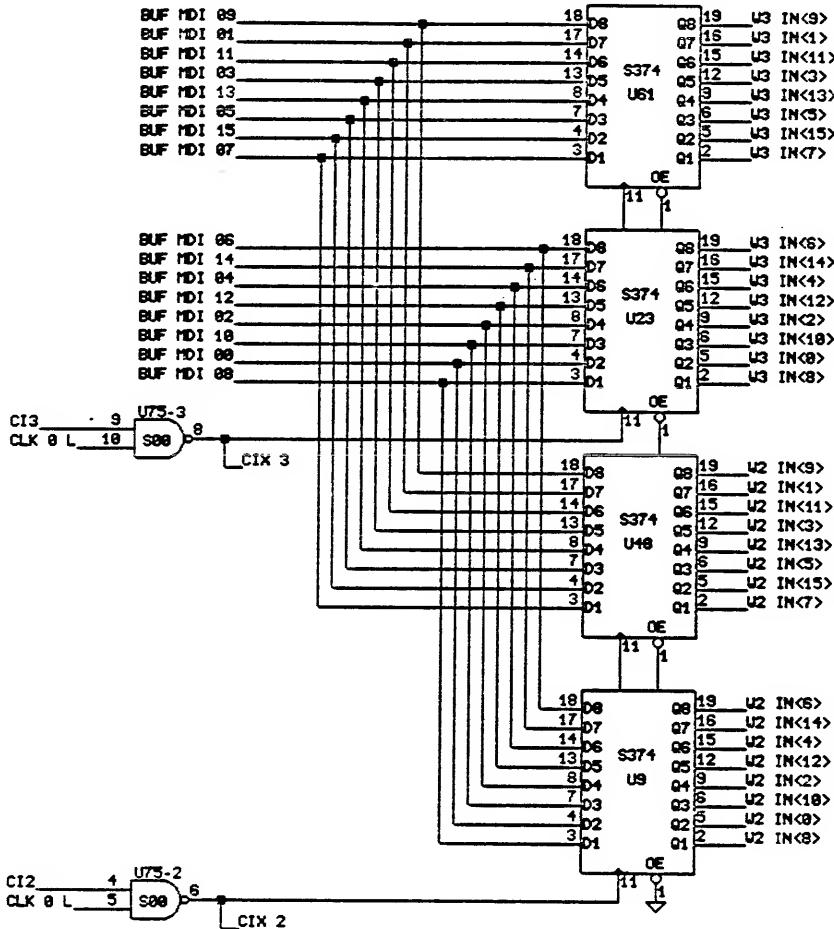
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LMEM82

**PERQ**

DESIGNED	RUSS SCHWER	SIZE	CODE	IDENTIFICATION	VAR	REV
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UPDATED			PROJ :	2 MEGABYTE LANDSCAPE MEMORY u/256k	PAGE 2	OF 27

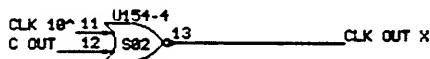
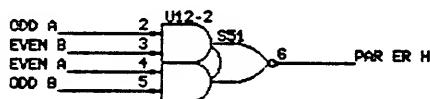
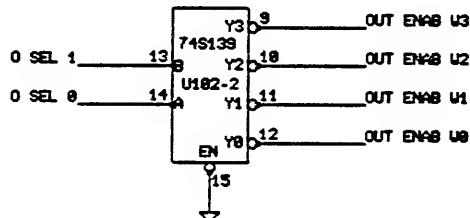
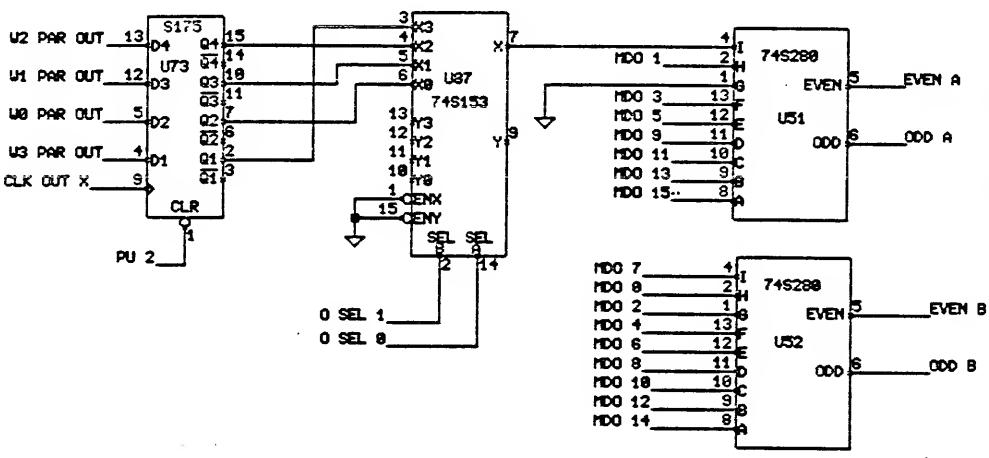


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TITLE MEMORY DATA INPUT REGISTERS : WORDS 2 AND 3

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PERQ SYSTEM CARD CATALOG			DESIGNED	RUSS SCHWER		SIZE	CODE	IDENTIFICATION			VAR	REV
			DRAWN	27 DEC 84	STECK	A	1 1	8 2 4 5 -			8 2	A
			UPDATED			PROJ :	2 MEGABYTE LANDSCAPE MEMORY w/256k				PAGE	3 OF 27



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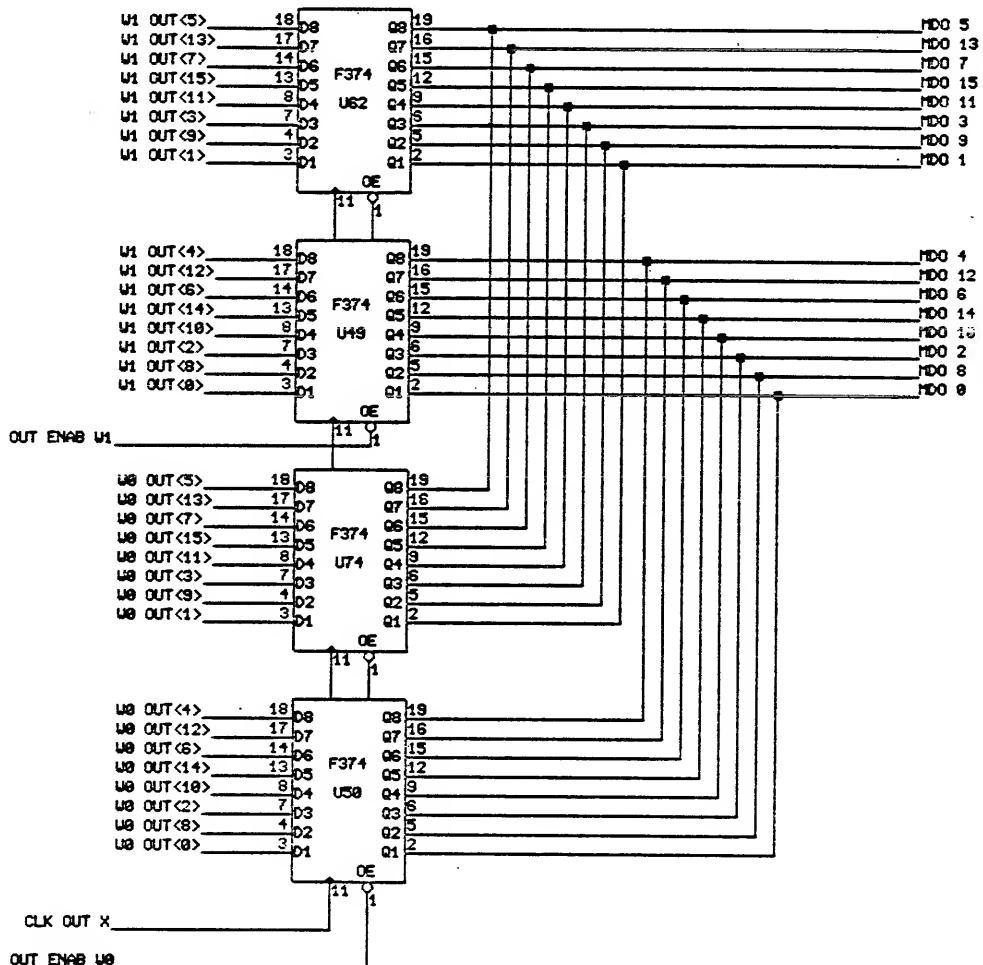
TITLE  
MEMORY DATA OUTPUT

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**PERO**

DESIGNED	RUSS SCHWER	SIZE	CODE	IDENTIFICATION	VAR	REV
DRAWN	27 DEC 84	STECK	A	1 1	8 2 4 5 -	A
UPDATED			PROJ :	2 MEGABYTE LANDSCAPE MEMORY 4/256k	PAGE	+ OF 27



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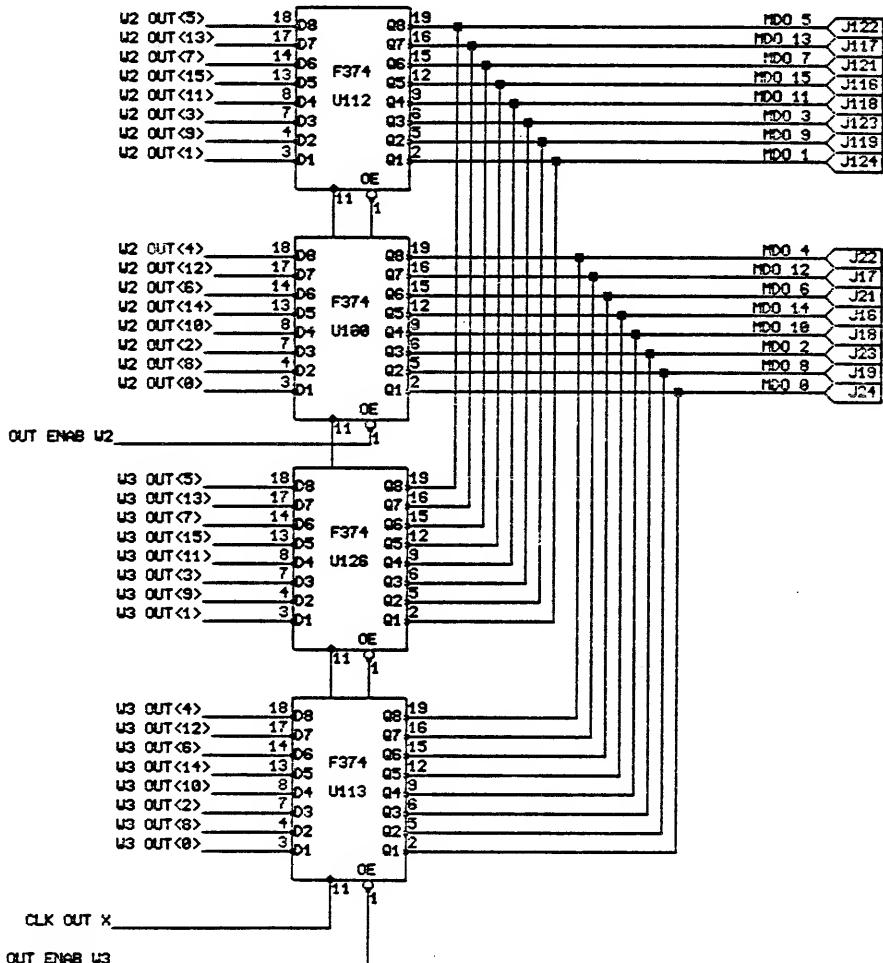
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TITLE DATA OUTPUT REGISTERS : WORDS 0 AND 1

LME105

**PERO**

DESIGNED	RUSS SCHWER		SIZE	CODE	IDENTIFICATION	VAR	REV
DRAWN	27 DEC 84	STECK	A	1 1	8 2 4 3 -	8 2	A
UPDATED			PROJ. :	2 MEGABYTE LANDSCAPE MEMORY w/256k		PAGE 5	OF 27



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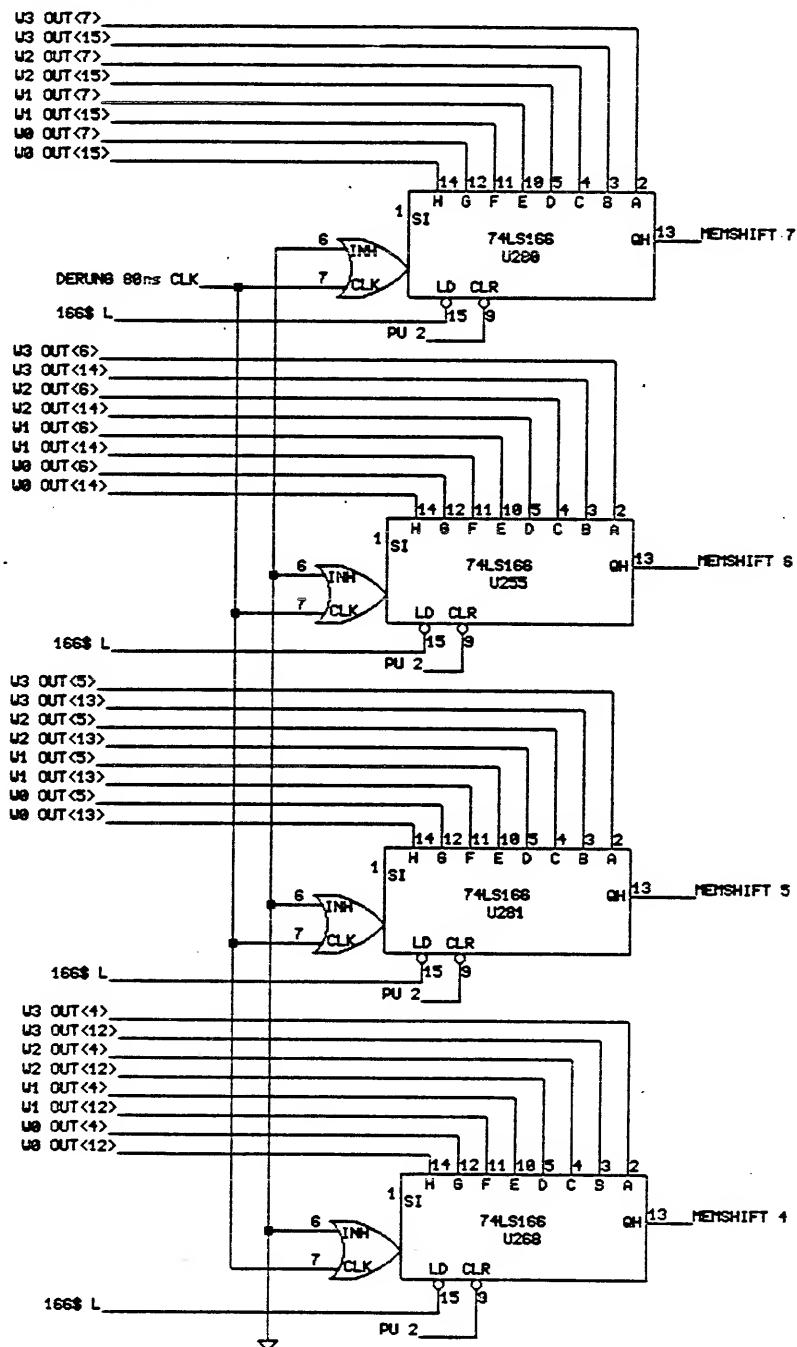
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LME126

**PERQ**

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UPDATED			PROJ :	2 MEGABYTE LANDSCAPE MEMORY u/256k			PAGE 6 OF 27



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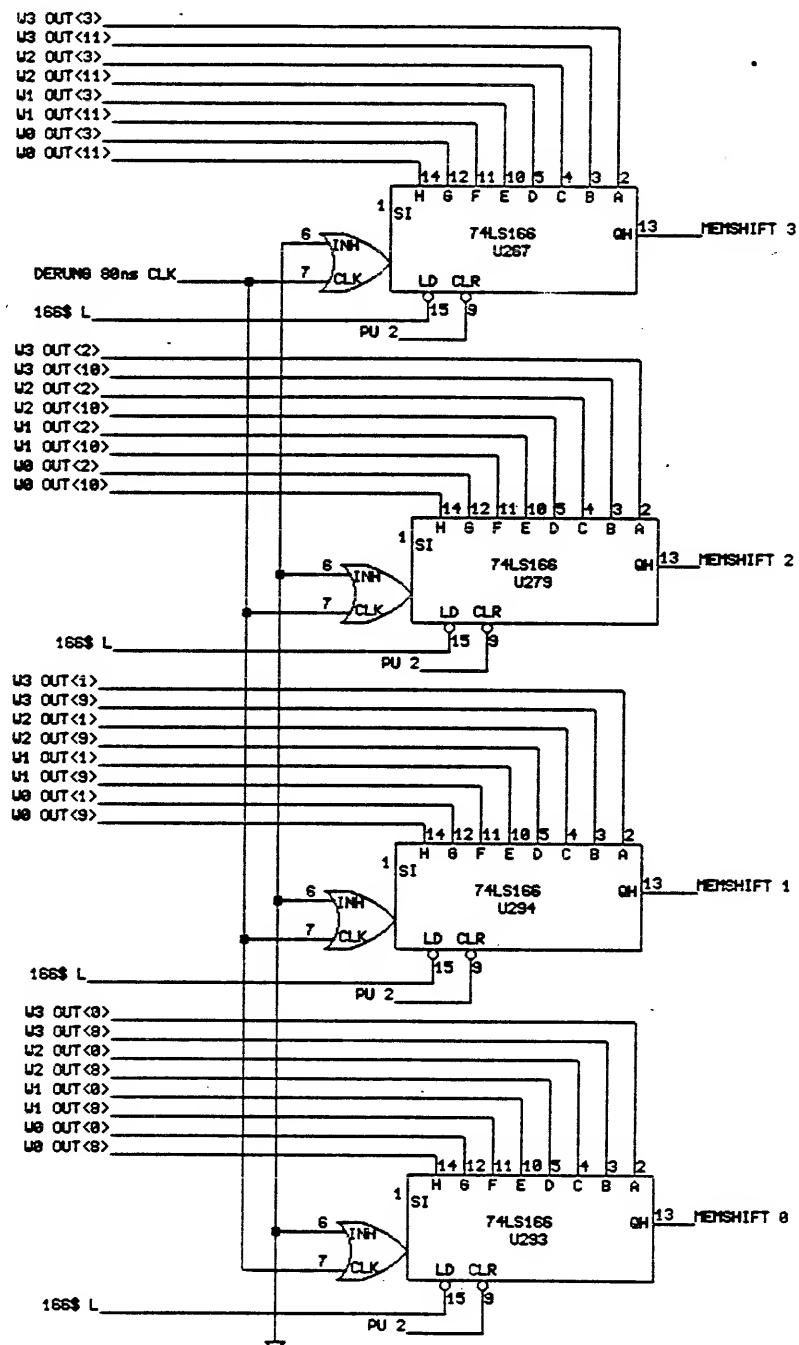
TITLE  
MEMORY WORD MUX - 64 BITS to 8 BITS

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**PERO**

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UPDATED			PROJ :	2 MEGABYTE LANDSCAPE MEMORY u/256k	PAGE 7	CF 27



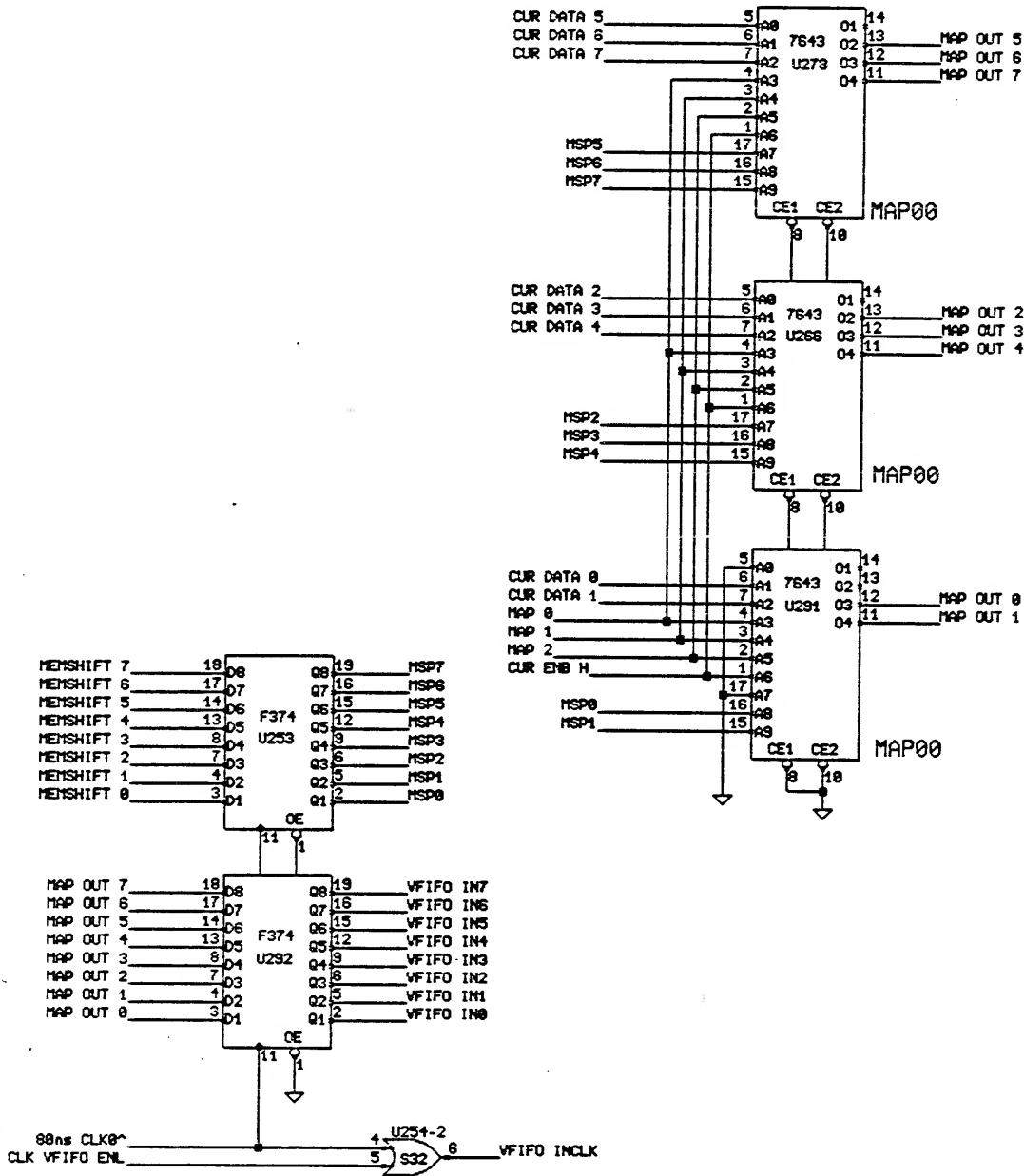
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TITLE  
MEMORY WORD MUX - 64 BITS to 8 BITS

LMEM08

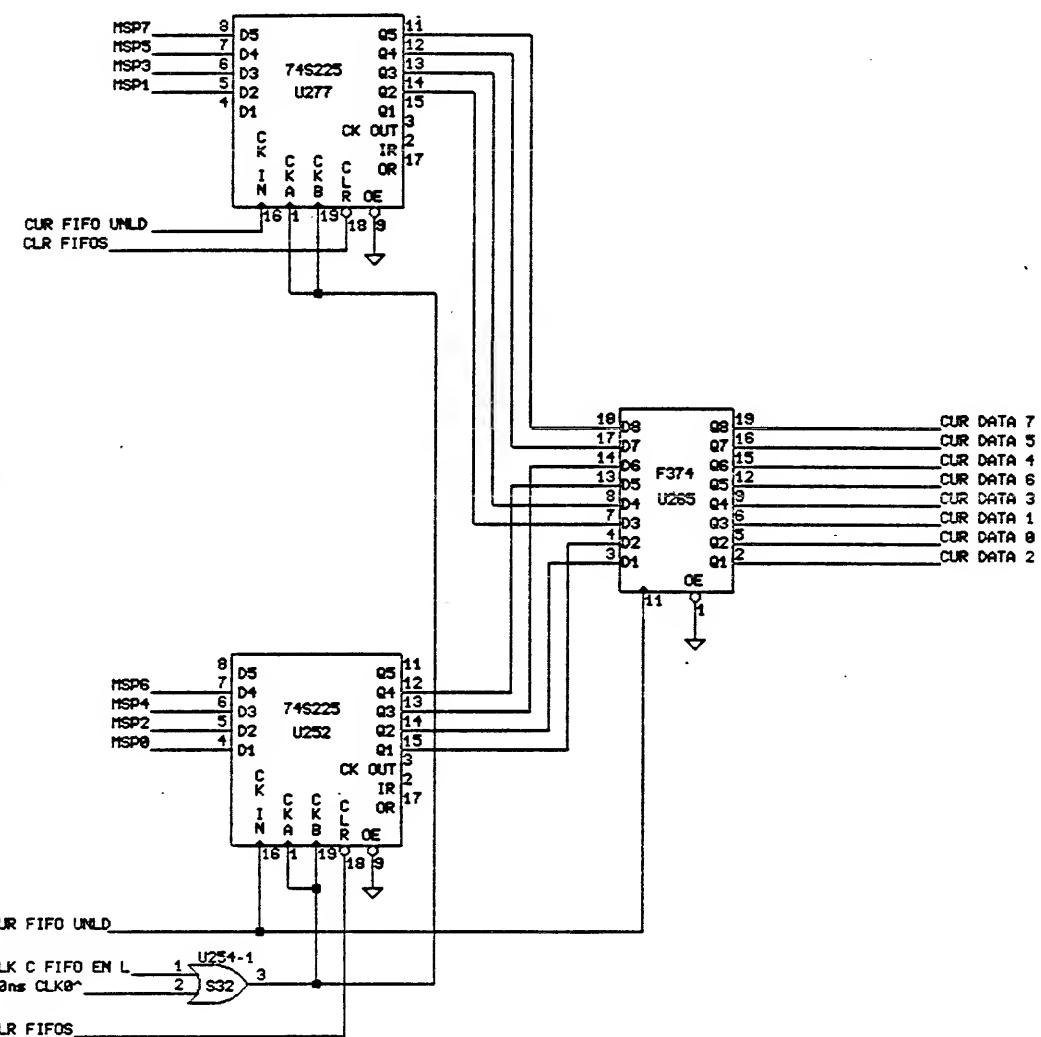
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	DRAUN	27 DEC 84	STECK	A	1 1	0 2 4 5 -	0 2
	UPDATED			PROJ :	2 MEGABYTE LANDSCAPE MEMORY u/256k	PAGE 8	OF 27



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TITLE MEMORY - CURSOR DATA MIXER FOR VIDEO LMEM69

PERO	DESIGNED	RUSS SCHUER	SIZE	CODE	IDENTIFICATION	VAR	REV
	DRAWN	27 DEC 84 STECK	A	1 1	0 2 4 5 -	0 2	A
	UPDATED		PROJ :	2 MEGABYTE LANDSCAPE MEMORY u/256k	PAGE 9 OF 27		



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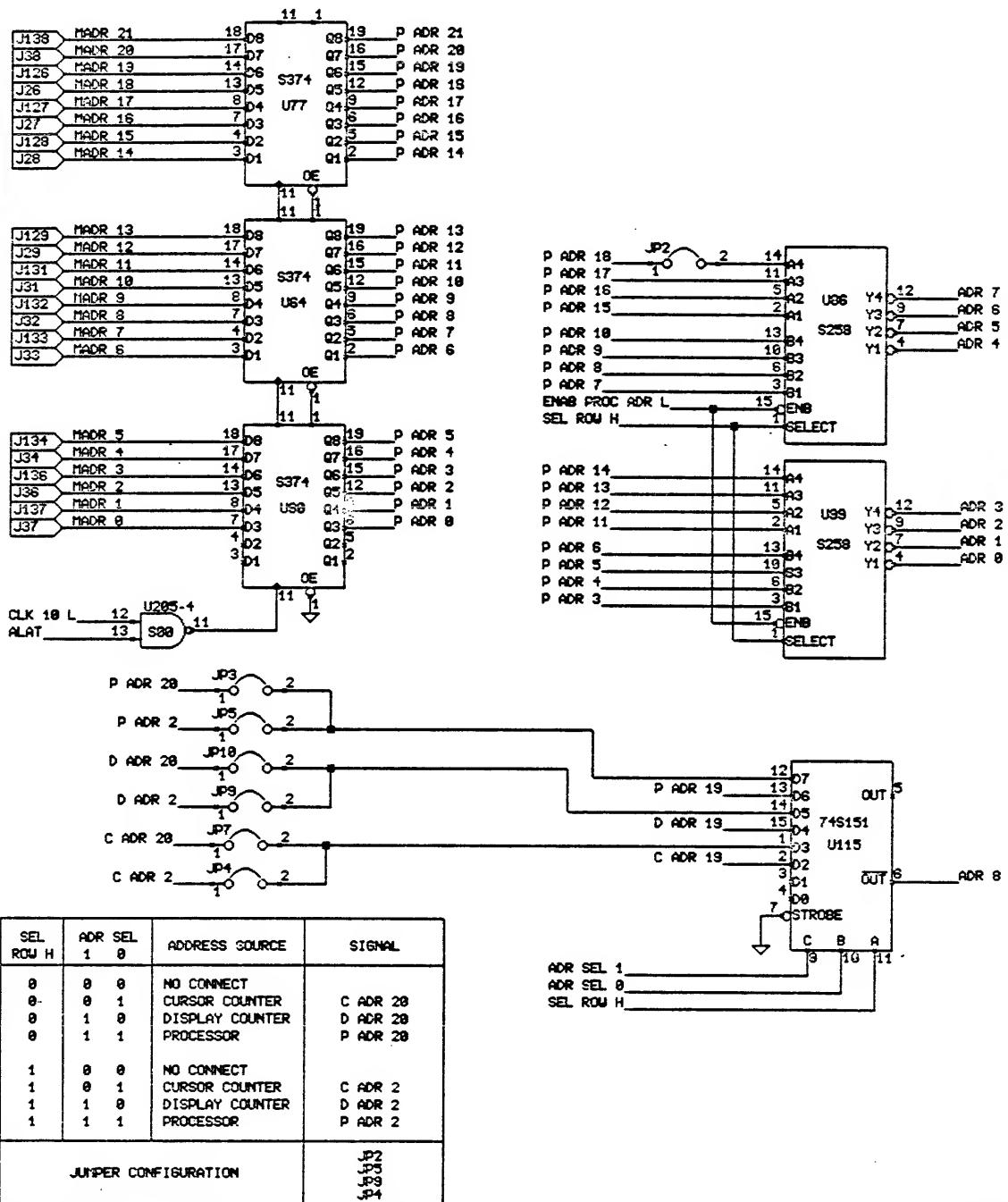
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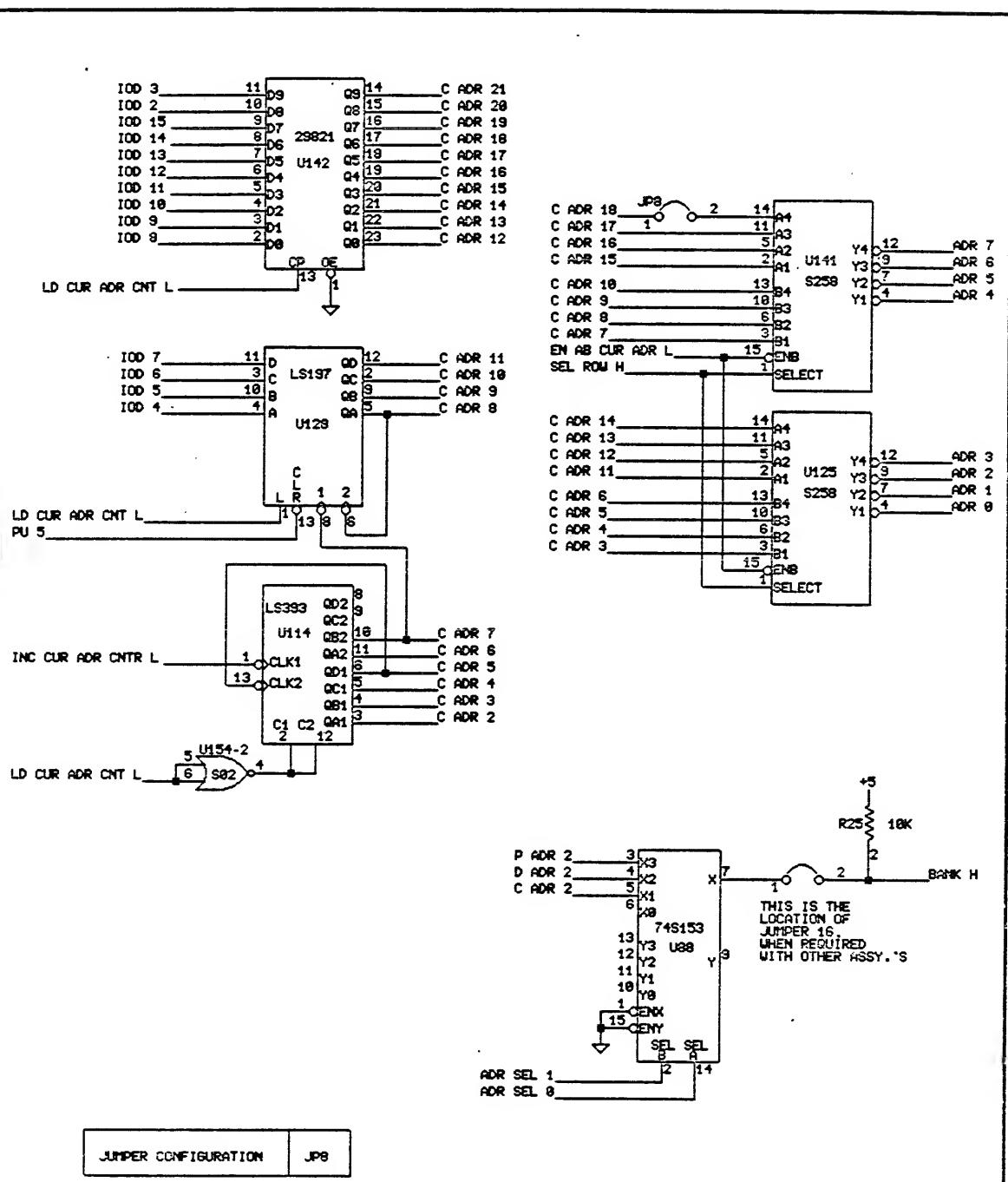
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UPDATED			PROJ :	2 MEGABYTE LANDSCAPE MEMORY u/256k		PAGE 18 OF 27	



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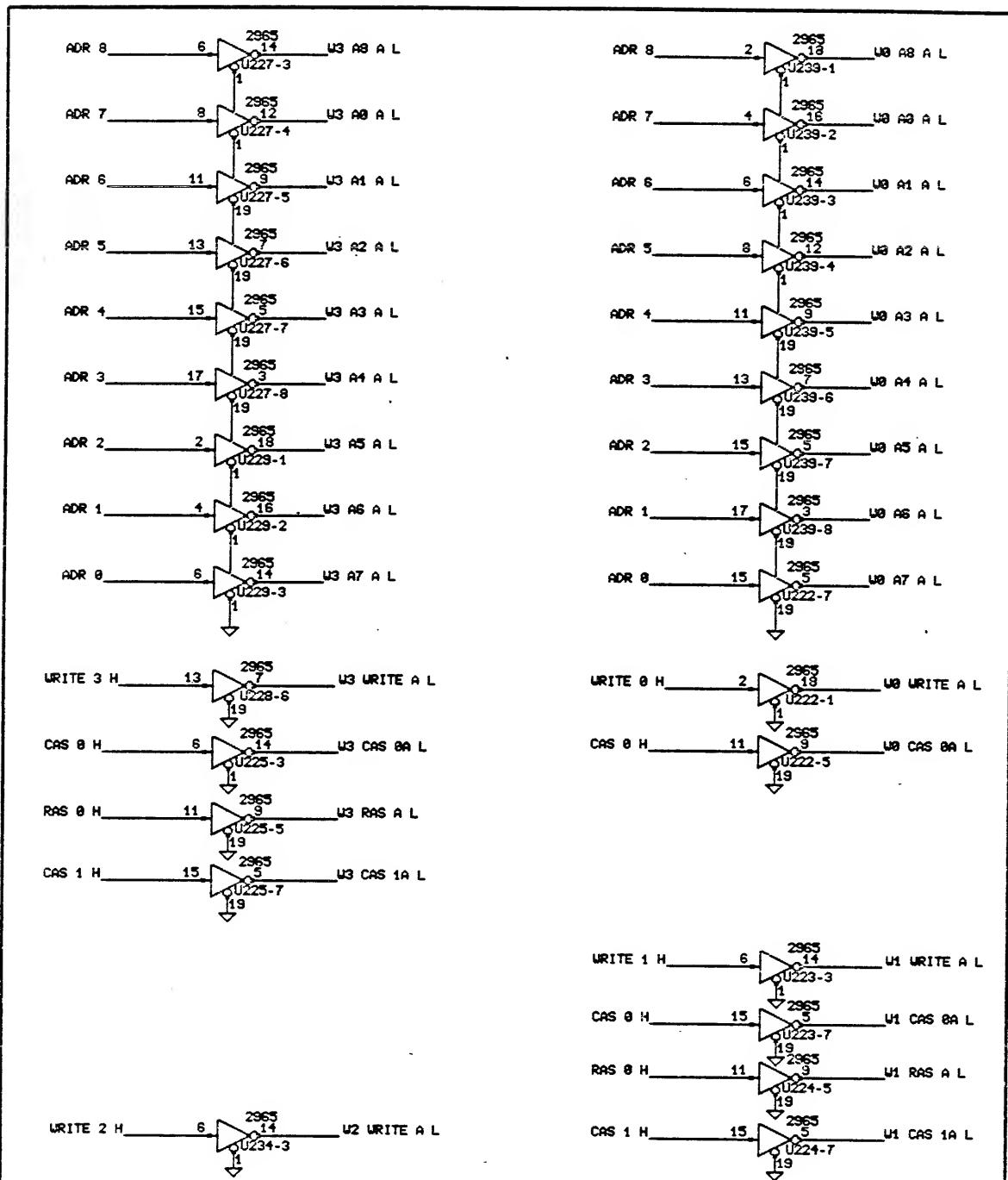
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UPDATED				PROJ :	2 MEGABYTE LANDSCAPE MEMORY u/256k				PAGE 12 OF 27	



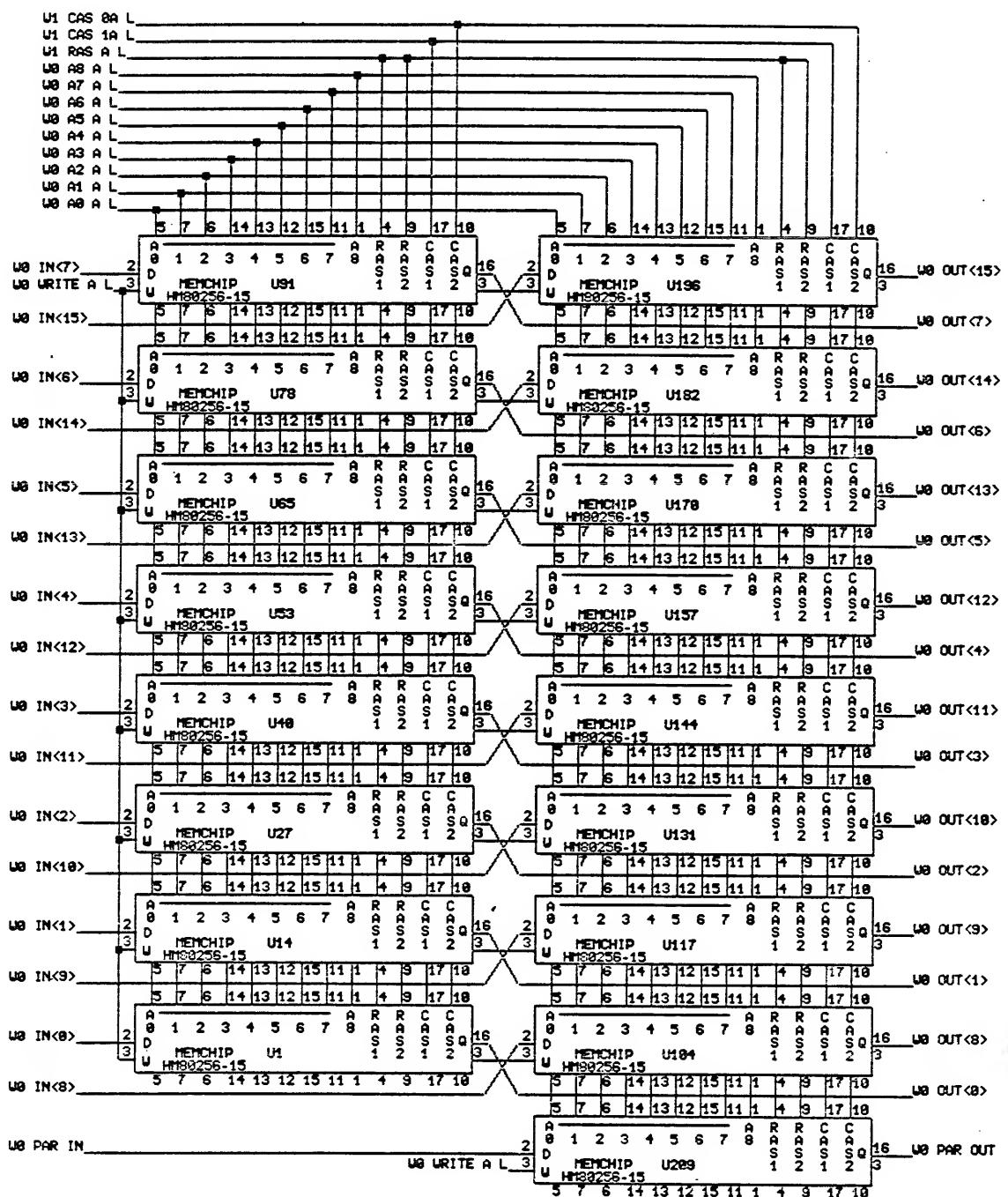
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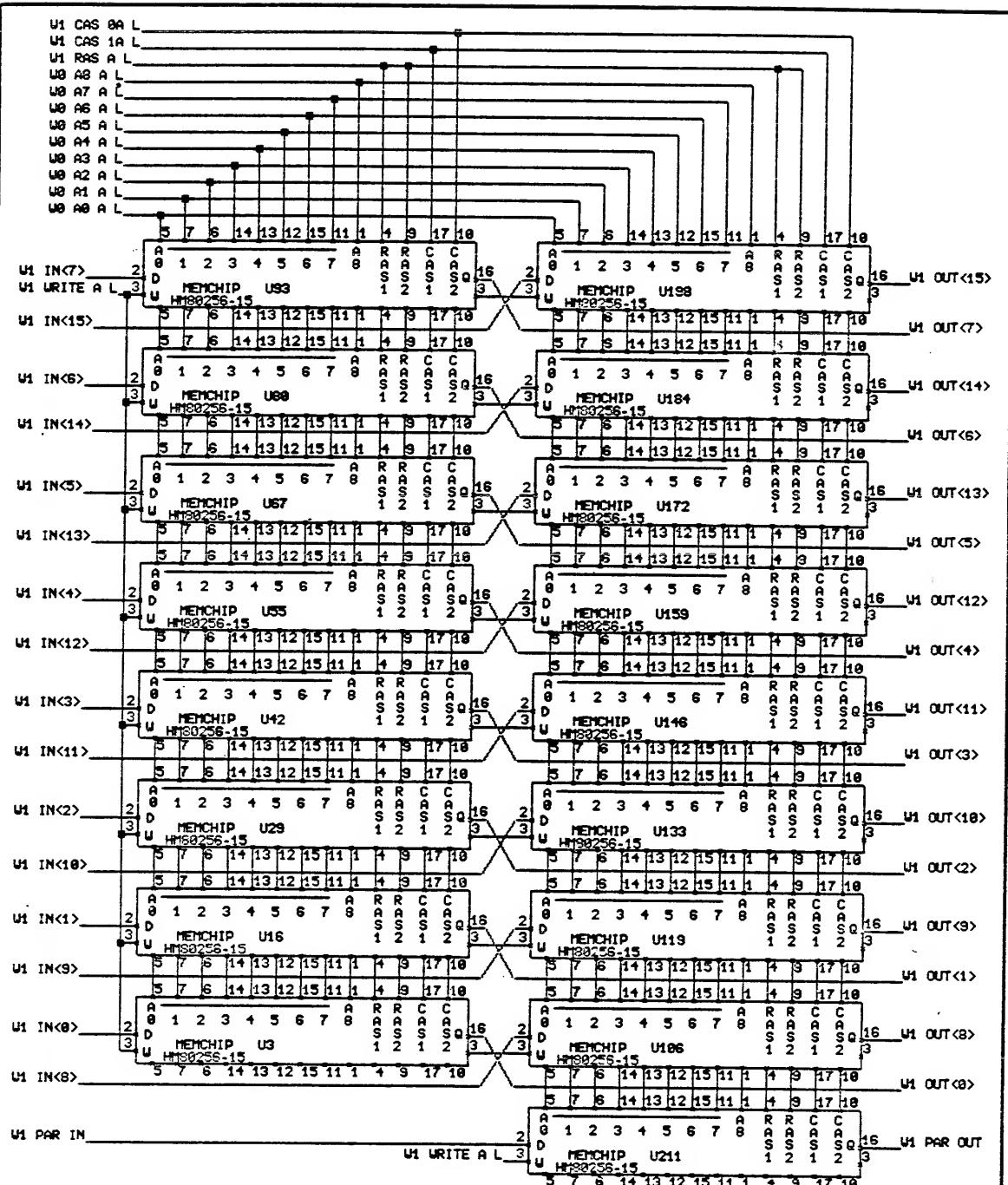
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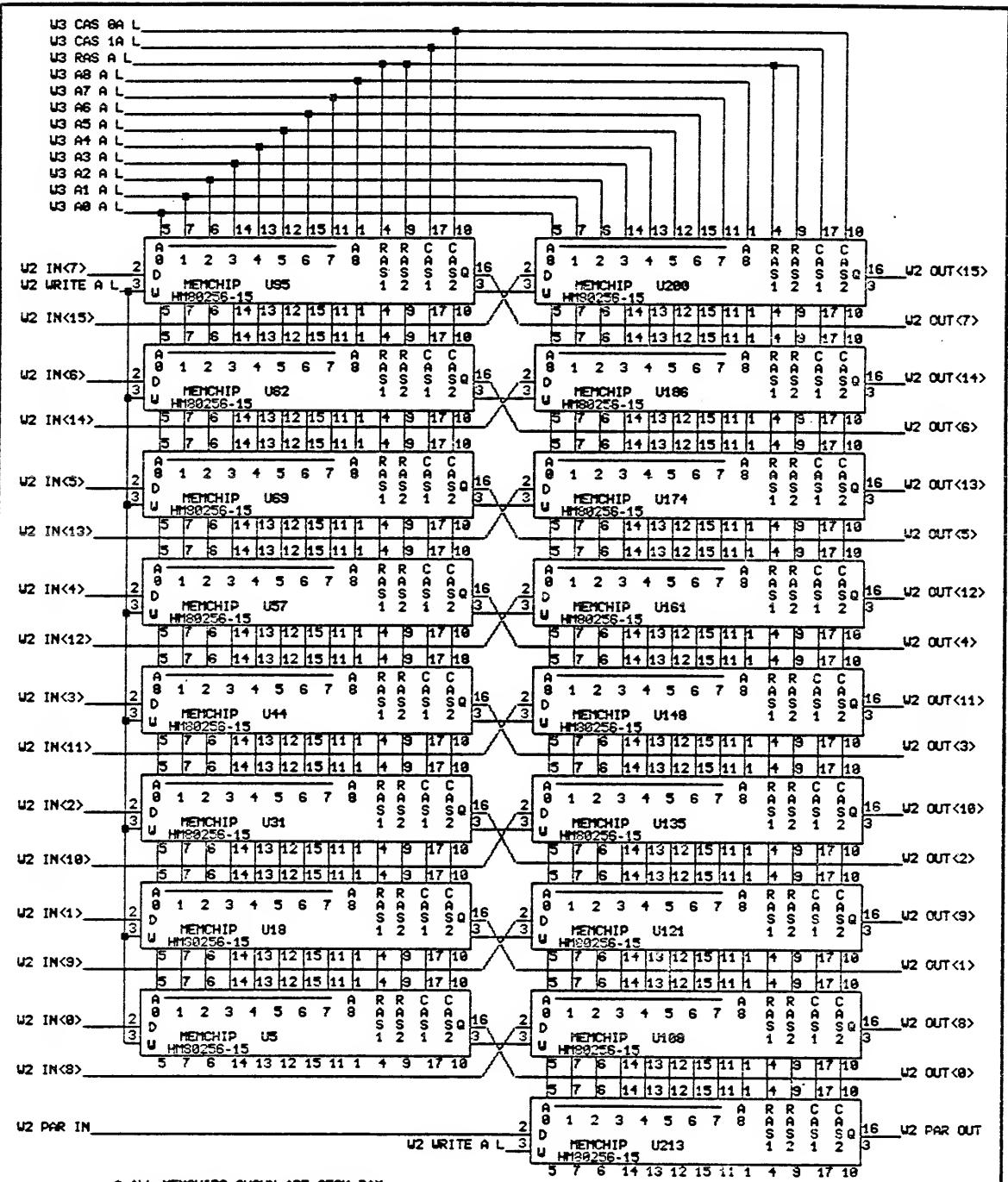
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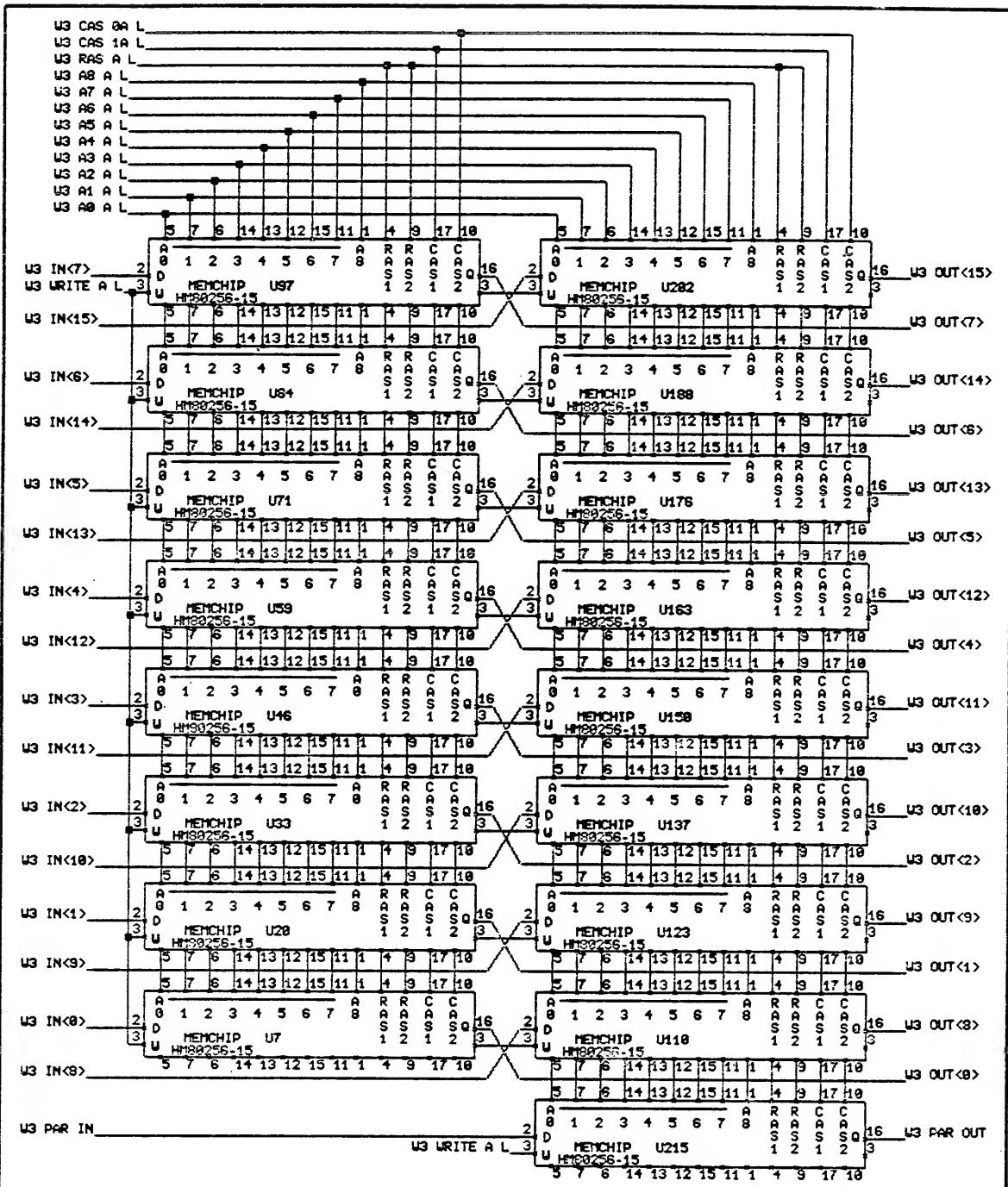
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	UPDATED			PROJ : 2 MEGABYTE LANDSCAPE MEMORY w/256k		PAGE 15 OF 27			



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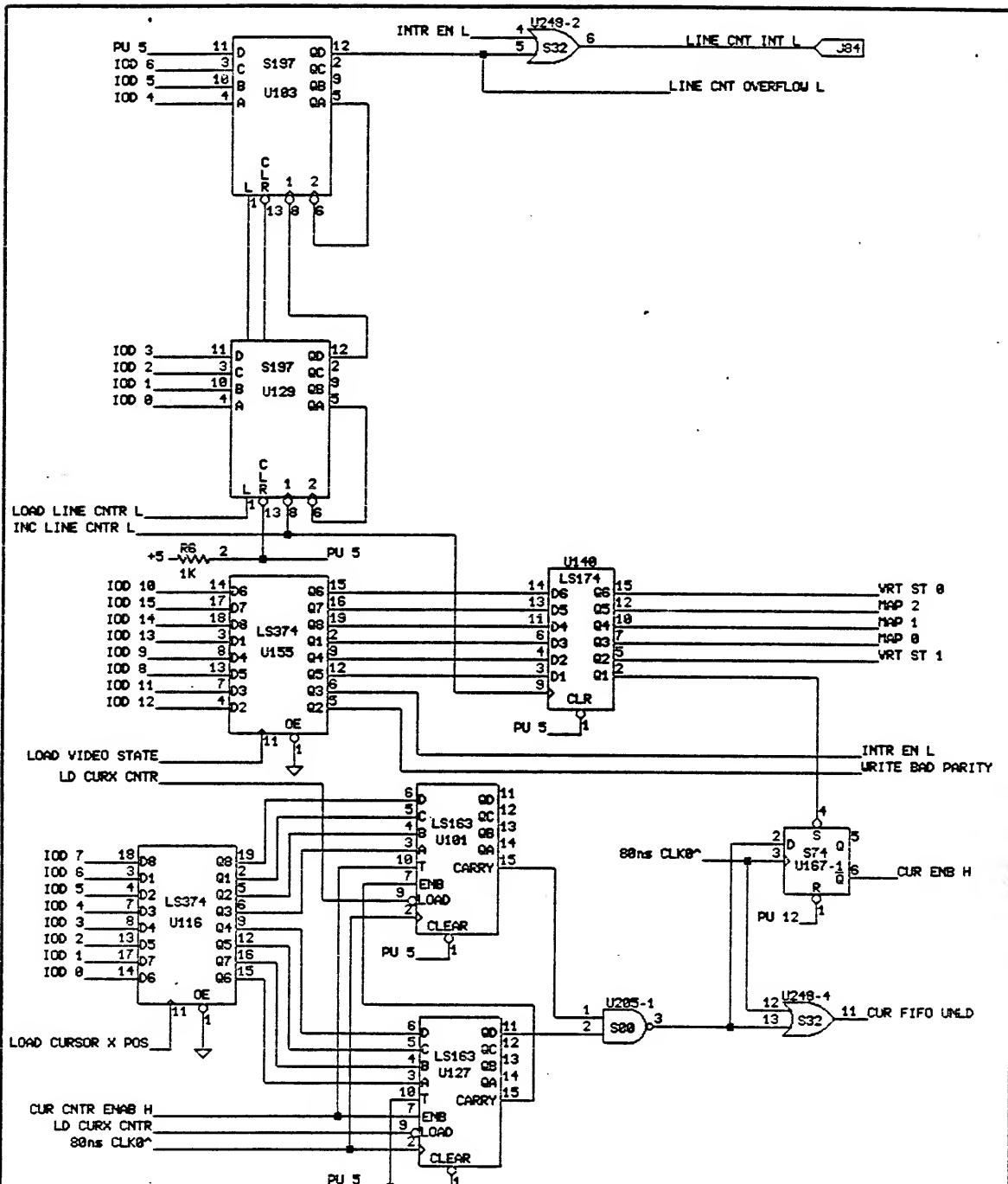
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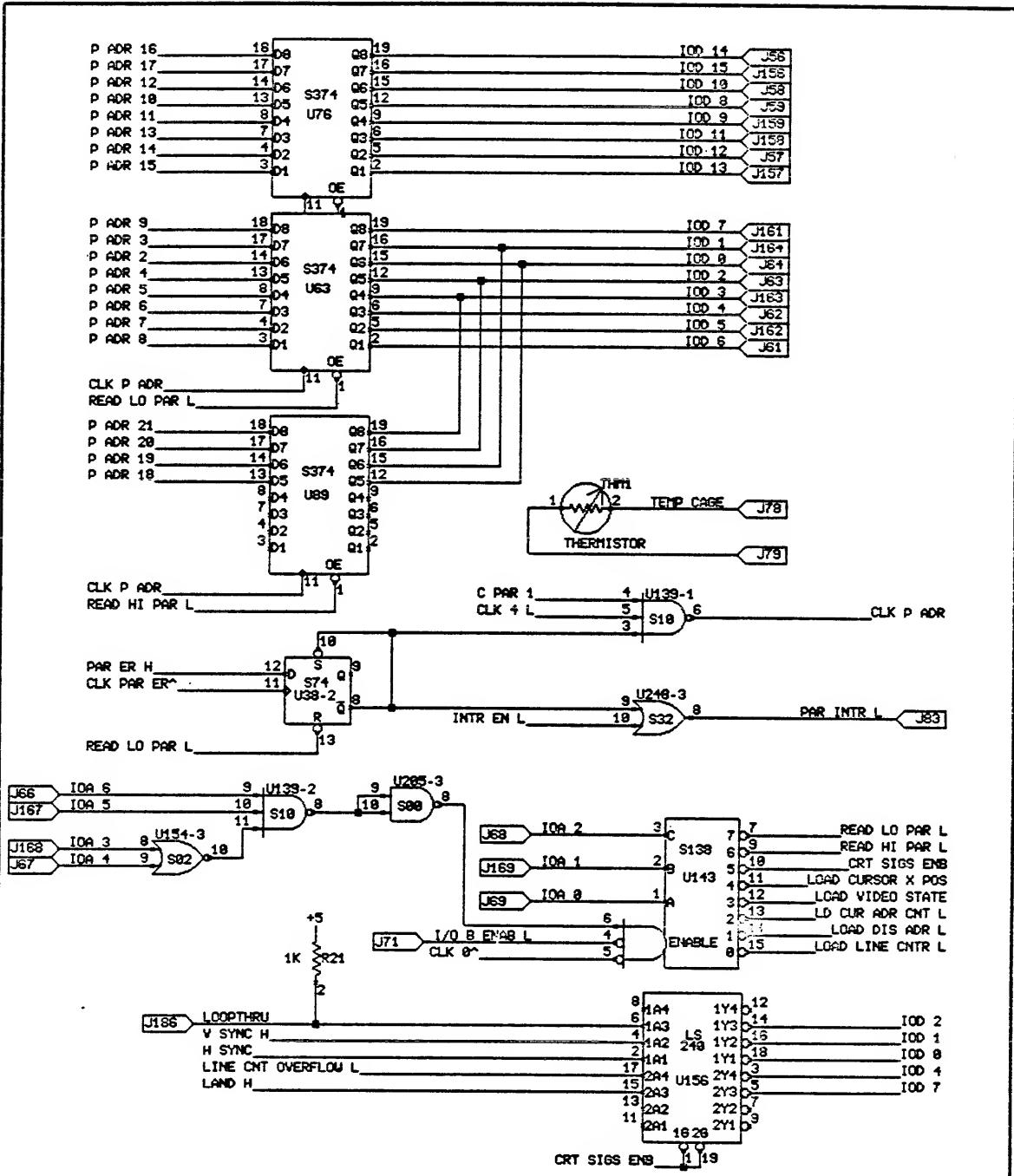
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TITLE  
IO8 VIDEO CONTROL REGISTERS

LMEH18

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	UPDATED			PROJ :	2 MEGASYTE LANDSCAPE MEMORY u/25ck	PAGE 18 OF 27	



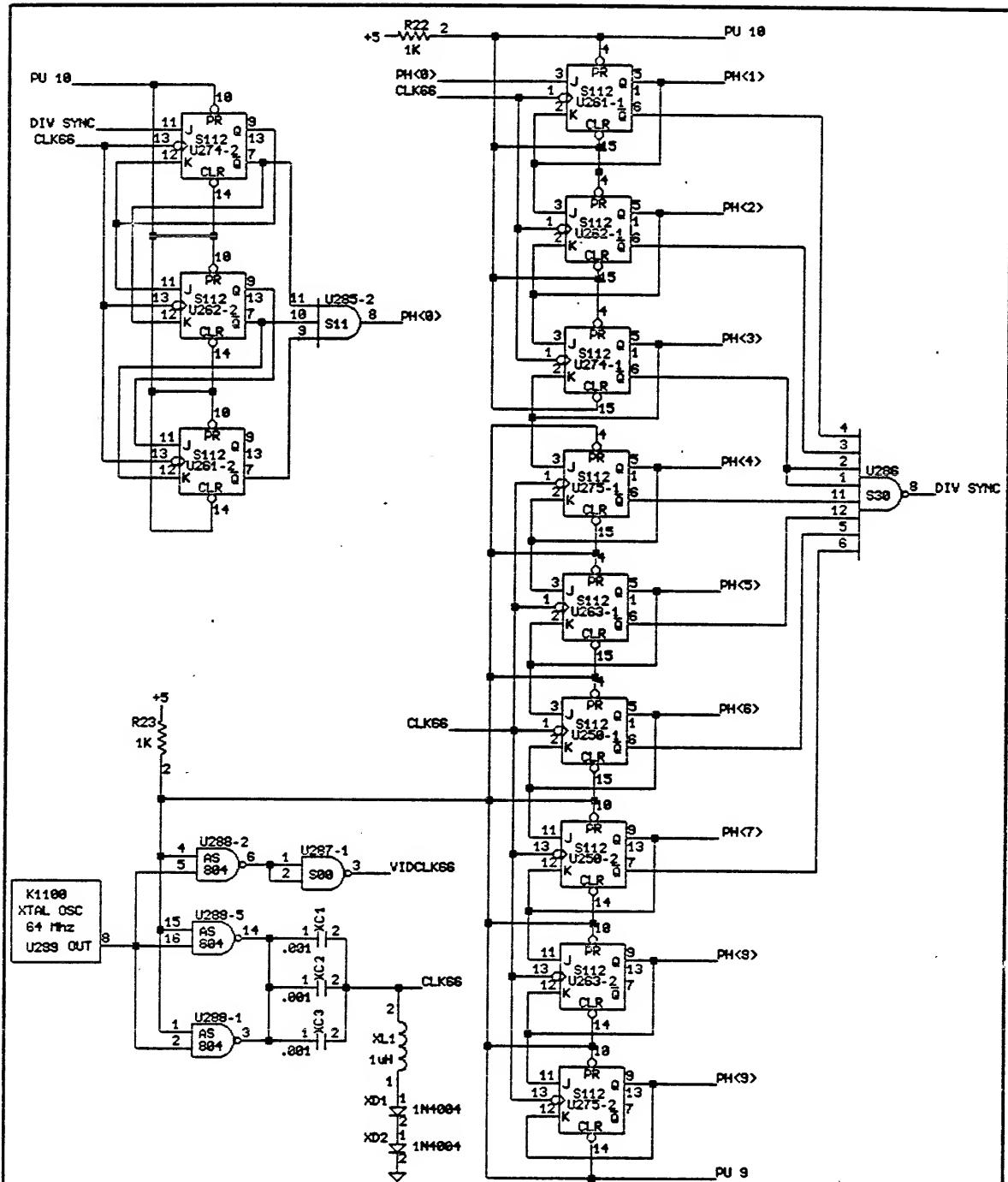
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PROJ : 2 MEGABYTE LANDSCAPE MEMORY u/256k

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TITLE CLOCK PHASE GENERATION LOGIC

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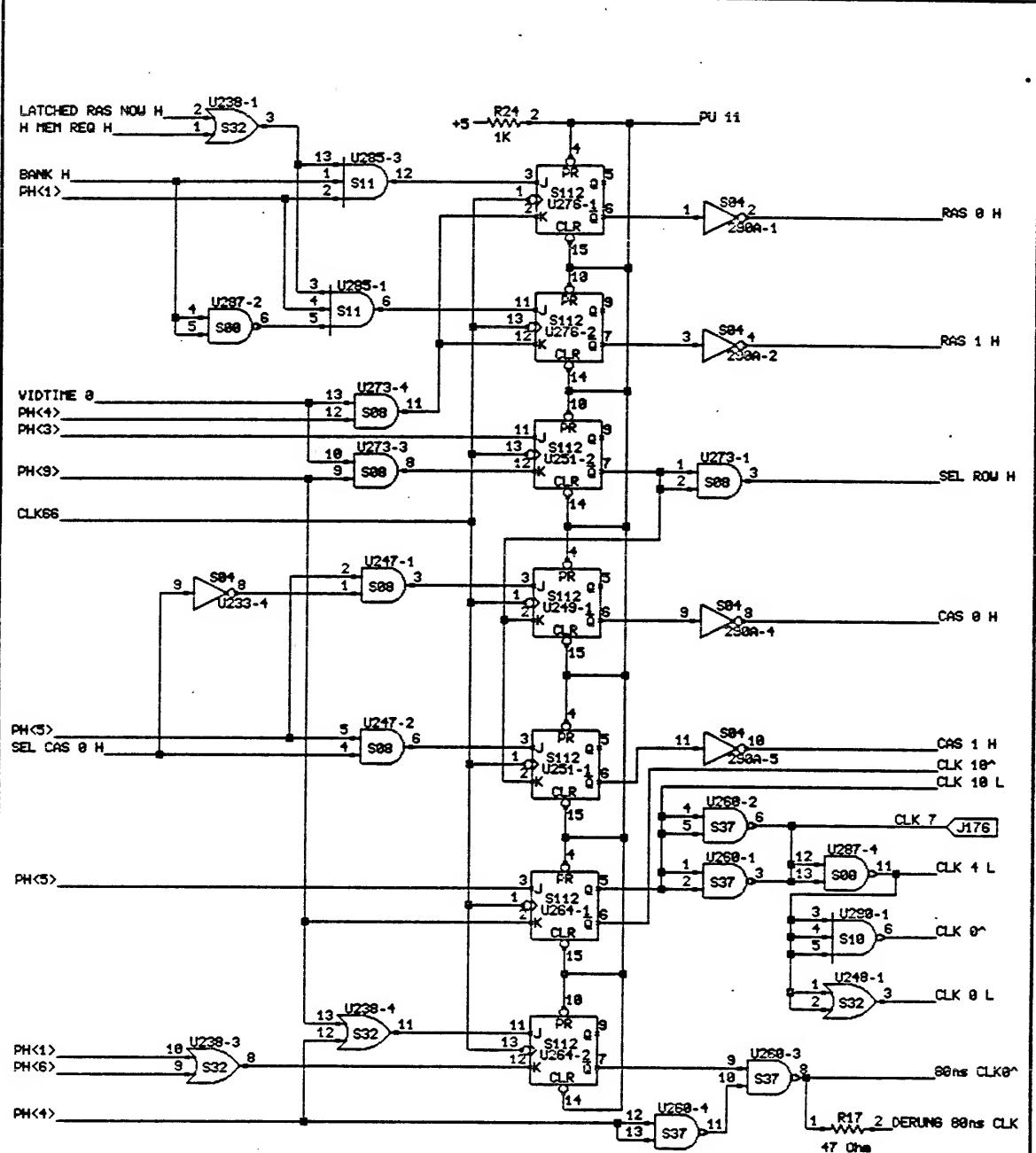
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PROJ : 2 MEGABYTE LANDSCAPE MEMORY u/256k

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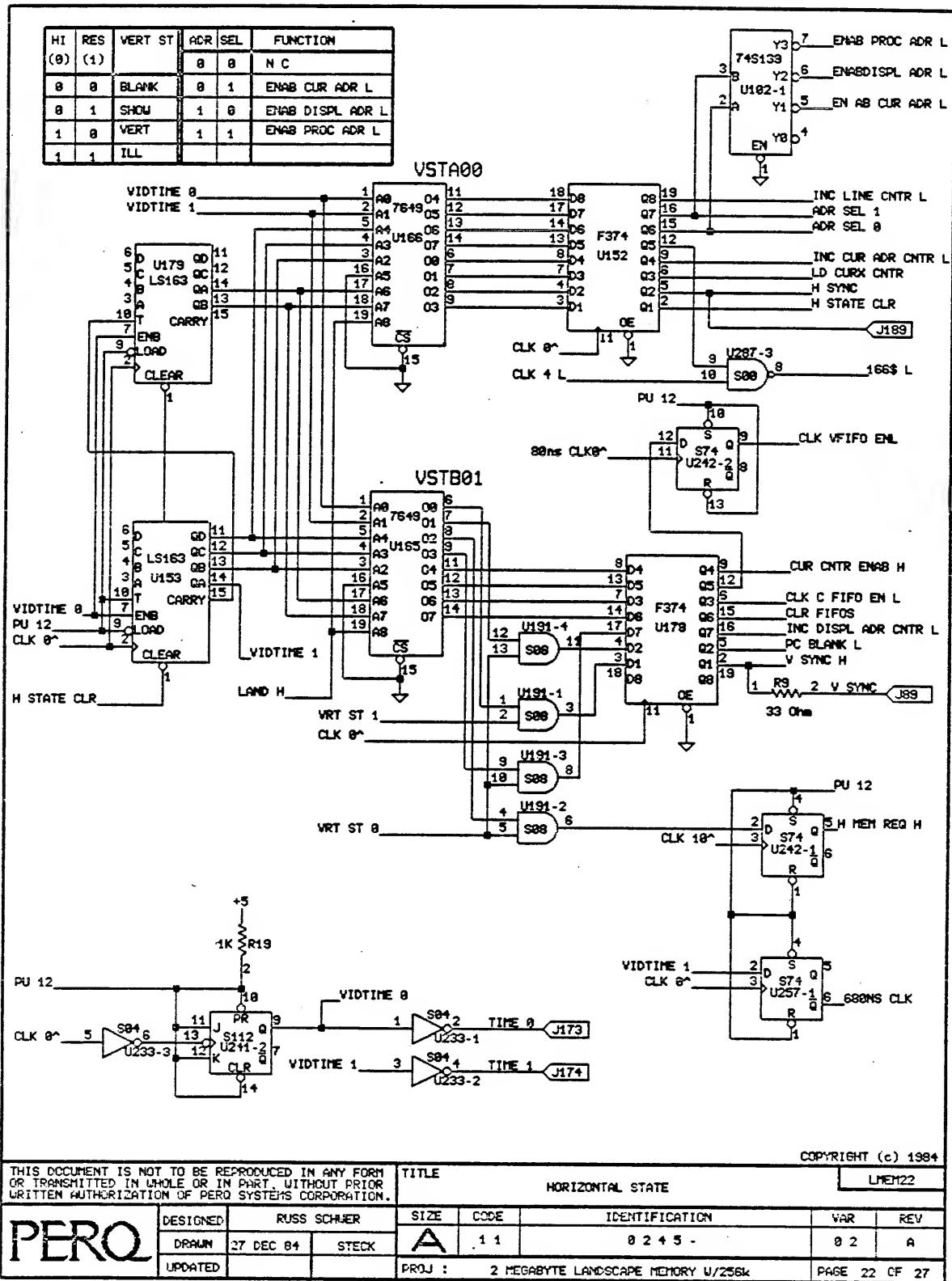


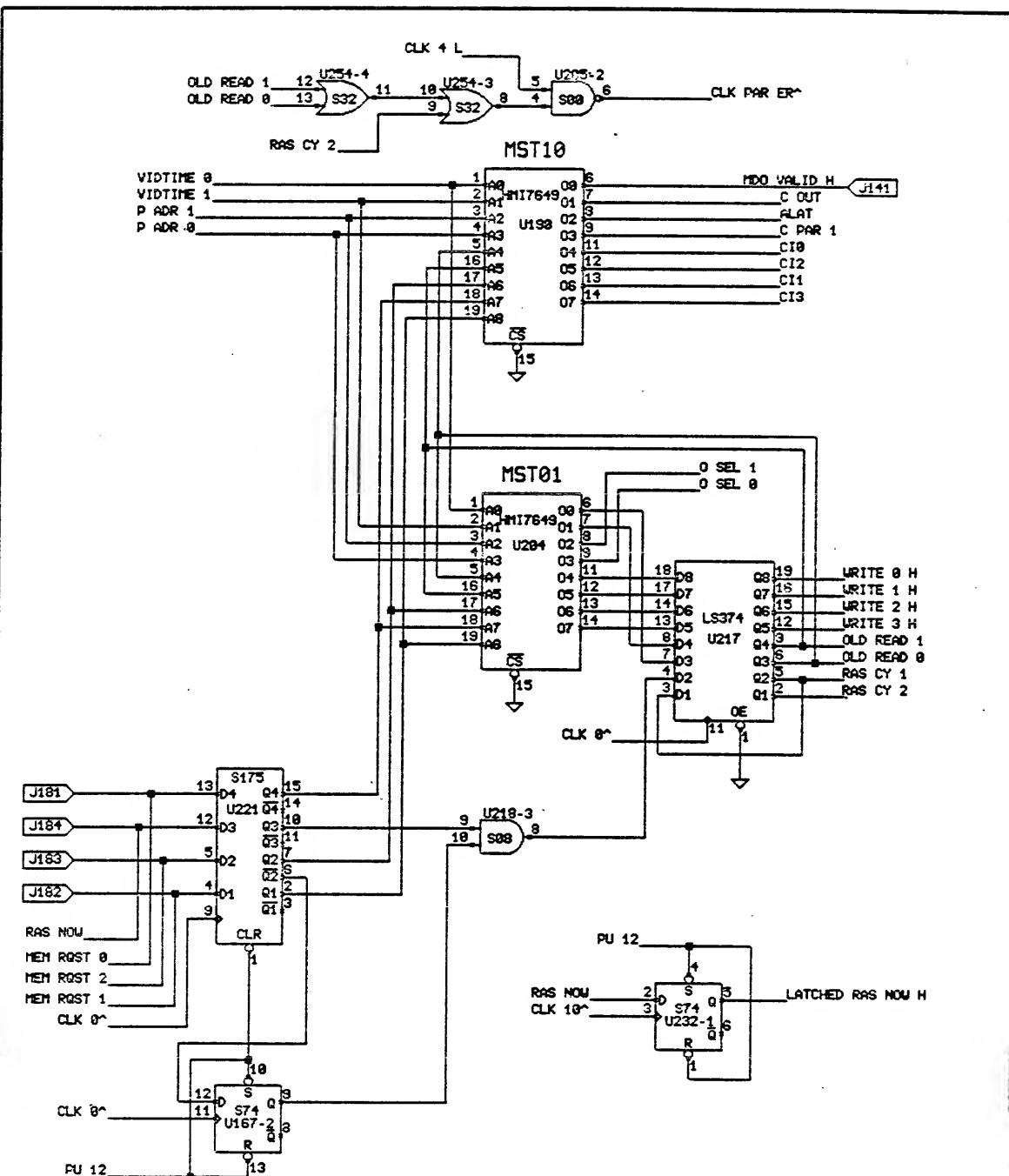
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TITLE CLOCK GENERATION

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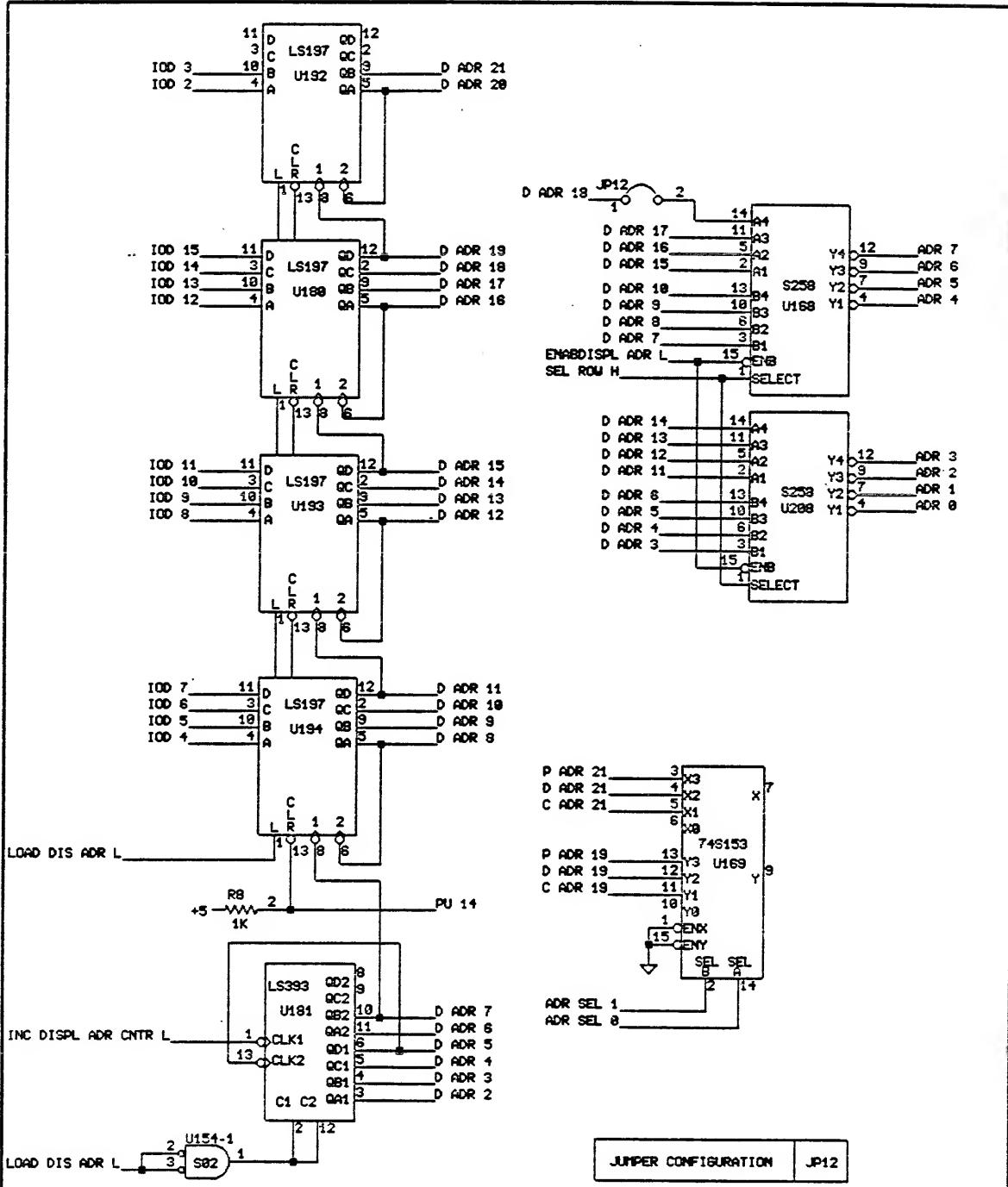
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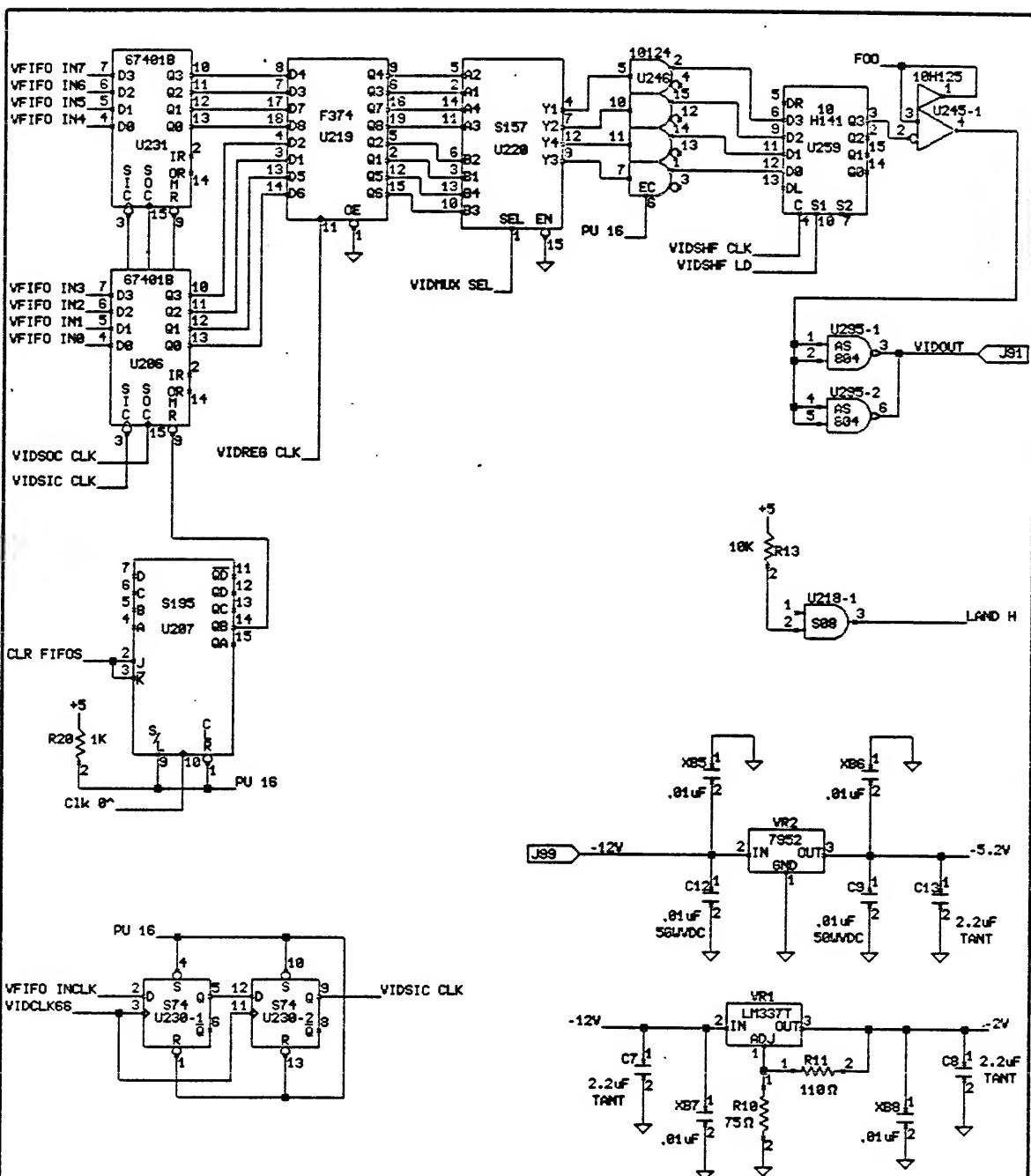
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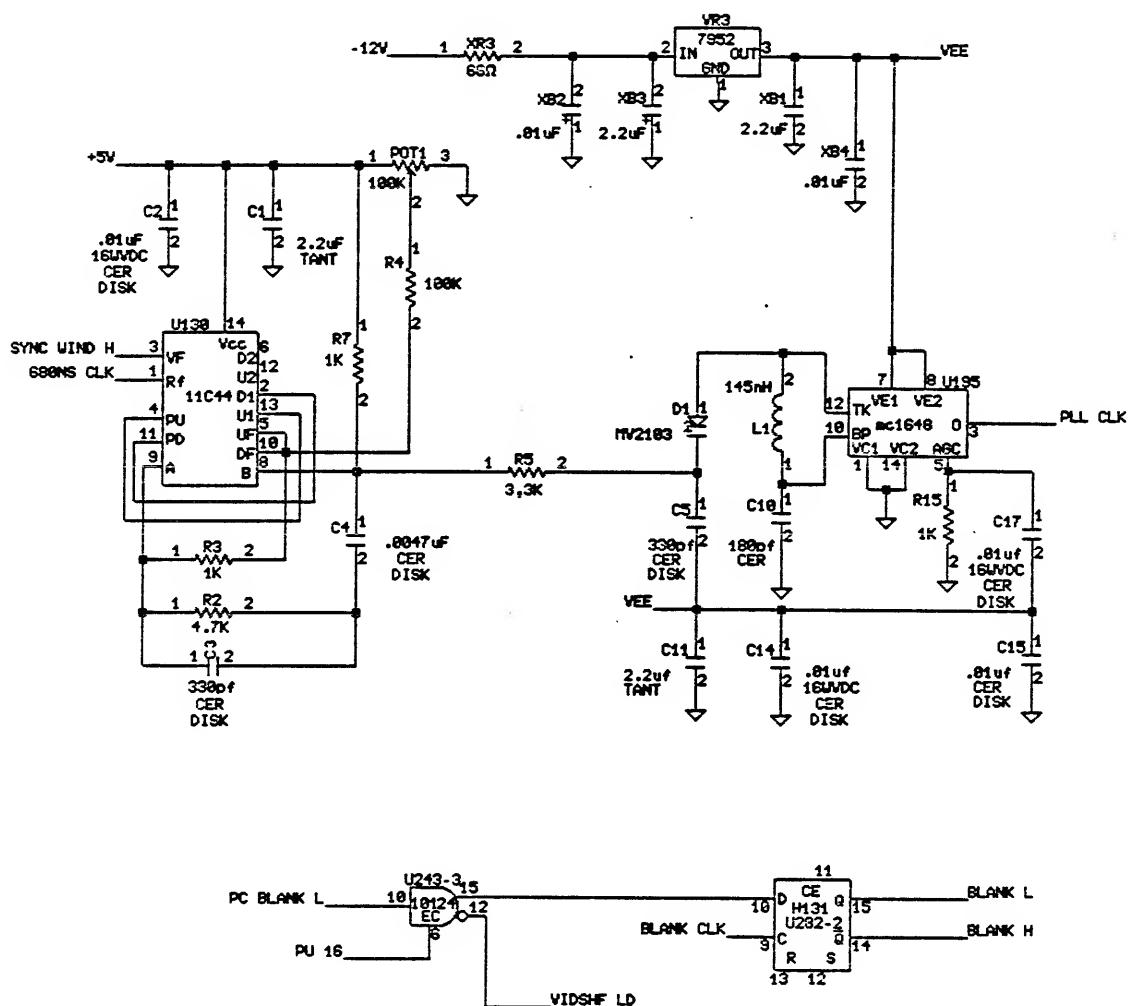


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TITLE VIDEO OUT DATA PATH - -5.2V and -2V REGULATORS

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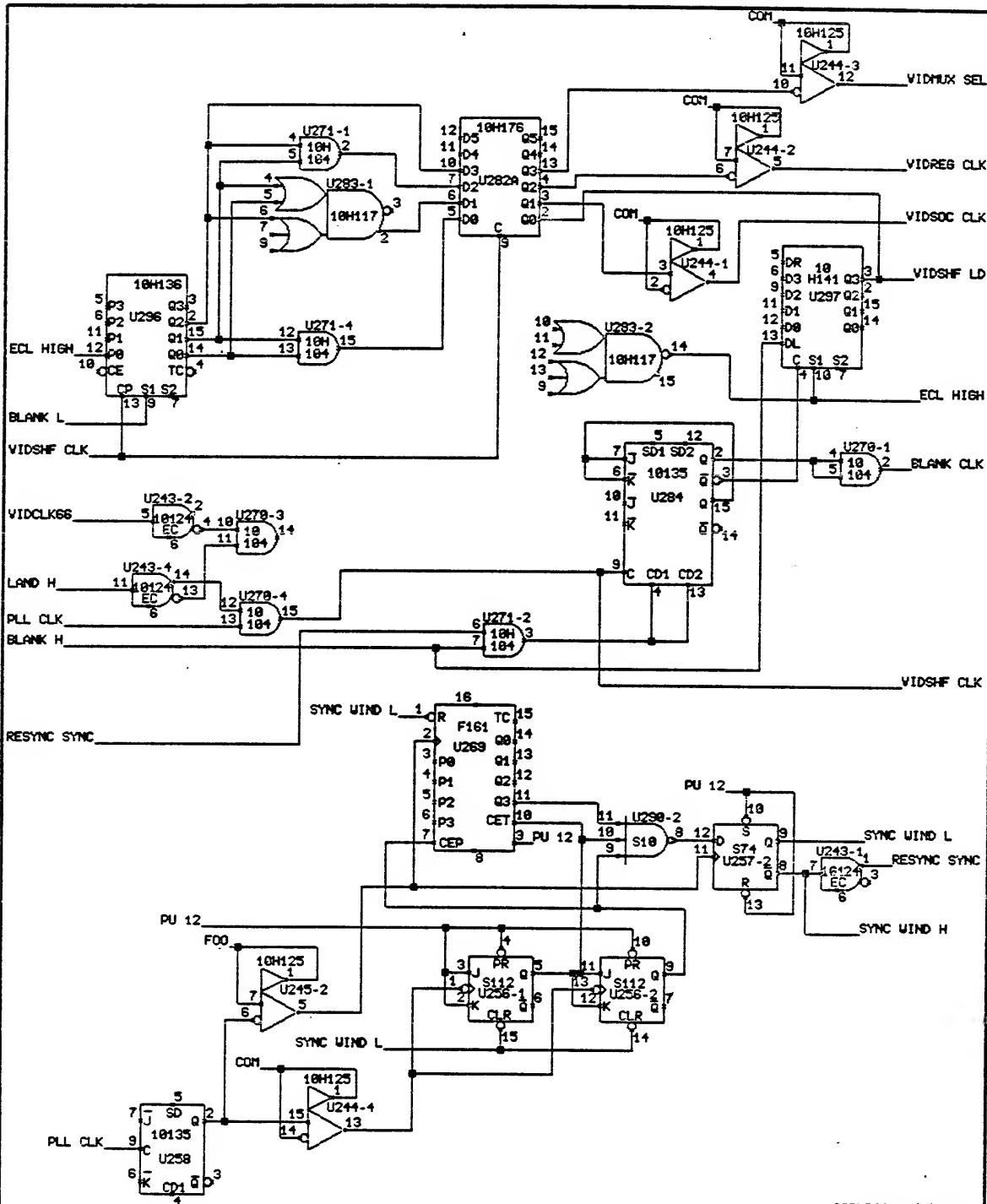
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TITLE  
PHASE LOCK LOOP - VCO AND PHASE COMPARATOR

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TITLE VIDEO CLOCK SYNC AND VIDEO OUT CONTROL LMEM27

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	UPDATED	16 Jan 85 STECK	PROJ :	2 MEGABYTE LANDSCAPE MEMORY u/256k			PAGE 27 OF 27

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W1 IN<14>.....	15	2			
W1 IN<15>.....	15	2			
W1 IN<1>.....	15	2			
W1 IN<2>.....	15	2			
W1 IN<3>.....	15	2			
W1 IN<4>.....	15	2			
W1 IN<5>.....	15	2			

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W1 IN<7>	.....	15	2
W1 IN<8>	.....	15	2
W1 IN<9>	.....	15	2
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W1 OUT<10>	.....	15	8 5
W1 OUT<11>	.....	15	8 5
W1 OUT<12>	.....	15	7 5
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W1 OUT<14>	.....	15	7 5
W1 OUT<15>	.....	15	7 5
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W1 OUT<7>	.....	15	7 5
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37: U130-4 U130-13	.%U130-13
38: U130-11 U130-2	.%U130-2
39: R3-1 C3-1 R2-1 U130-9	.%U130-9
40: U154-10 U139-11	.%U139-11
41: U155-19 U140-11	.%U140-11
42: U155-16 U140-13	.%U140-13
43: U155-15 U140-14	.%U140-14
44: U167-4 U140-2	.%U140-2
45: U155-12 U140-3	.%U140-3
46: U155-9 U140-4	.%U140-4
47: U155-2 U140-6	.%U140-6
48: JP8-2 U141-14	.%U141-14
49: U287-9 U152-12	.%U152-12
50: U179-10 U153-15	.%U153-15
51: U178-8 U165-11	.%U165-11
52: U178-13 U165-12	.%U165-12

53: U178-7 U165-13	.%U165-13
54: U178-14 U165-14	.%U165-14
55: U191-1 U165-6	.%U165-6
56: U191-4 U165-8	.%U165-8
57: U152-18 U166-11	.%U166-11
58: U152-17 U166-12	.%U166-12
59: U152-14 U166-13	.%U166-13
60: U152-13 U166-14	.%U166-14
61: U165-17 U179-14 U166-17	.%U166-17
62: U165-18 U179-13 U166-18	.%U166-18
63: U153-13 U165-3 U166-3	.%U166-3
64: U153-12 U165-4 U166-4	.%U166-4
65: U153-11 U165-5 U166-5	.%U166-5
66: U152-8 U166-6	.%U166-6
67: U152-7 U166-7	.%U166-7
68: U152-4 U166-8	.%U166-8
69: U152-3 U166-9	.%U166-9
70: U205-3 U248-13 U167-2	.%U167-2
71: JP12-2 U168-14	.%U168-14
72: U154-1 U181-12 U181-2	.%U181-2
73: U178-4 U191-11	.%U191-11
74: U165-7 U191-12	.%U191-12
75: U178-3 U191-3	.%U191-3
76: U242-2 U191-6	.%U191-6
77: U178-17 U191-8	.%U191-8
78: U165-9 U191-9	.%U191-9

79: C17-1 R15-1 U195-5	.%U195-5
80: U221-7 U190-17 U204-17	.%U204-17
81: U221-15 U190-18 U204-18	.%U204-18
82: U221-2 U190-19 U204-19	.%U204-19
83: U217-8 U204-7	.%U204-7
84: U101-15 U205-1	.%U205-1
85: U143-6 U205-8	.%U205-8
86: U205-10 U139-8 U205-9	.%U205-9
87: U219-4 U206-10	.%U206-10
88: U219-3 U206-11	.%U206-11
89: U219-13 U206-12	.%U206-12
90: U219-14 U206-13	.%U206-13
91: U204-14 U217-13	.%U217-13
92: U204-13 U217-14	.%U217-14
93: U204-12 U217-17	.%U217-17
94: U204-11 U217-18	.%U217-18
95: U218-8 U217-4	.%U217-4
96: U204-6 U217-7	.%U217-7
97: U167-9 U218-10	.%U218-10
98: R13-2 U218-2	.%U218-2
99: U221-10 U218-9	.%U218-9
100: U220-13 U219-12	.%U219-12
101: U220-14 U219-16	.%U219-16
102: U231-12 U219-17	.%U219-17
103: U231-13 U219-18	.%U219-18
104: U220-11 U219-19	.%U219-19

105: U220-3 U219-2	.%U219-2
106: U220-6 U219-5	.%U219-5
107: U220-2 U219-6	.%U219-6
108: U231-11 U219-7	.%U219-7
109: U231-10 U219-8	.%U219-8
110: U220-5 U219-9	.%U219-9
111: U219-15 U220-10	.%U220-10
112: U246-10 U220-7	.%U220-7
113: U246-7 U220-9	.%U220-9
114: U167-12 U221-6	.%U221-6
115: U230-12 U230-5	.%U230-5
116: U207-14 U206-9 U231-9	.%U231-9
117: U233-6 U241-13	.%U241-13
118: U178-12 U242-12	.%U242-12
119: U270-12 U243-14	.%U243-14
120: U282-10 U243-15	.%U243-15
121: 282A-13 U244-10	.%U244-10
122: U256-13 U256-1 U244-13	.%U244-13
123: U245-6 U258-2 U244-15	.%U244-15
124: 282A-4 U244-6	.%U244-6
125: U220-12 U246-11	.%U246-11
126: U259-11 U246-14	.%U246-14
127: U259-9 U246-15	.%U246-15
128: U259-6 U246-2	.%U246-2
129: U220-4 U246-5	.%U246-5
130: U233-8 U247-1	.%U247-1

131:	U249-3 U247-3	.%U247-3
132:	U251-3 U247-6	.%U247-6
133:	290A-9 U249-6	.%U249-6
134:	U12-13 U25-5	.%U25-5
135:	U265-13 U252-12	.%U252-12
136:	U265-14 U252-13	.%U252-13
137:	U265-3 U252-14	.%U252-14
138:	U265-4 U252-15	.%U252-15
139:	U254-11 U254-10	.%U254-10
140:	U205-4 U254-8	.%U254-8
141:	U246-1 U259-12	.%U259-12
142:	U245-2 U259-3	.%U259-3
143:	U260-11 U260-10	.%U260-10
144:	U262-7 U285-10 U261-12	.%U261-12
145:	U286-4 U261-6	.%U261-6
146:	U286-3 U262-6	.%U262-6
147:	U261-11 U262-9	.%U262-9
148:	U238-11 U264-11	.%U264-11
149:	U238-8 U264-12	.%U264-12
150:	U260-9 U264-7	.%U264-7
151:	U290-11 U269-11	.%U269-11
152:	U245-5 U257-11 U269-2	.%U269-2
153:	U243-4 U270-10	.%U270-10
154:	U243-13 U270-11	.%U270-11
155:	U284-2 U270-4 U270-5	.%U270-5
156:	282A-5 U271-15	.%U271-15

157: 282A-7 U271-2 .%U271-2  
158: U283-6 282A-10 U296-2 U271-4 .%U271-4  
159: U296-15 U271-12 U283-4 U271-5 .%U271-5  
160: U249-2 U251-2 U273-2 U251-7 U273-1 .%U273-1  
161: U251-12 U273-8 .%U273-8  
162: U274-9 U262-11 U274-12 .%U274-12  
163: U286-11 U275-6 .%U275-6  
164: U273-11 U276-2 U276-12 .%U276-12  
165: U285-12 U276-3 .%U276-3  
166: 290A-1 U276-6 .%U276-6  
167: 290A-3 U276-7 .%U276-7  
168: U265-18 U277-11 .%U277-11  
169: U265-17 U277-12 .%U277-12  
170: U265-8 U277-13 .%U277-13  
171: U265-7 U277-14 .%U277-14  
172: U252-19 U252-1 U254-3 U277-1 U277-19 .%U277-19  
173: 282A-6 U283-2 .%U283-2  
174: U296-14 U271-13 U283-5 .%U283-5  
175: U297-4 U284-3 .%U284-3  
176: U271-3 U284-13 U284-4 .%U284-4  
177: U284-15 U284-6 U284-7 .%U284-7  
178: U262-12 U274-7 U285-11 .%U285-11  
179: U285-3 U238-3 U285-13 .%U285-13  
180: U276-11 U285-6 .%U285-6  
181: U261-7 U285-9 .%U285-9

182: U263-6 U286-12 .%U286-12  
183: U274-6 U286-1 U286-2 .%U286-2  
184: U250-6 U286-5 .%U286-5  
185: U250-7 U286-6 .%U286-6  
186: U288-6 U287-1 U287-2 .%U287-2  
187: U285-5 U287-6 .%U287-6  
188: XC1-1 U288-14 XC2-1 XC3-1 U288-3 .%U288-3  
188:  
\*\*\* Run has multiple outputs  
189: U288-16 U289-8 U288-2 U288-5 .%U288-5  
190: U256-9 U290-9 U269-7 U269-10 U256-11  
190: U256-5 U256-12 U290-10 .%U290-10  
\*\*\* Run has multiple outputs  
191: U257-12 U290-8 .%U290-8  
192: U245-4 U295-4 U295-5 U295-2 U295-1 .%U295-1  
192:  
193: U24-11 U37-11 .%U37-11  
194: U24-3 U37-3 .%U37-3  
195: U38-10 U139-3 U248-9 U38-8 .%U38-8  
196: U87-7 U51-4 .%U51-4  
197: U87-5 U73-10 .%U73-10  
198: U64-11 U90-11 U205-11 U77-11 .%U77-11  
199: U73-2 U87-3 .%U87-3  
200: U73-15 U87-4 .%U87-4  
201: U73-7 U87-6 .%U87-6  
202: XB2-2 VR3-2 XR3-2 XB3-2 .%XB3-2  
203: XL1-1 XD1-1 .%XD1-1  
204: XD2-1 XD1-2 .%XD1-2

205: R7-1 POT1-1 U130-14 C1-1 C2-1 .+5V  
206: XB5-2 C12-1 J99-1 VR2-2 VR1-2 XB7-1  
206: C7-1 XR3-1 .-12V  
207: XB8-1 VR1-3 C8-1 R11-2 .-2V  
208: XB6-2 VR2-3 C13-1 C9-1 .-5.2V  
209: U268-15 U281-15 U280-15 U255-15 U293-15  
209: U279-15 U267-15 U294-15 U287-8 .166\$ L  
210: U257-6 U130-1 .680NS CLK  
211: U254-4 U292-11 U253-11 U254-2 U248-12  
211: U167-3 U127-2 U101-2 R17-1 U260-8  
211: U242-11 .80NS CLK0^  
212: U99-4 U125-4 U222-15 U229-6 U208-4  
212: .ADR 0  
213: U99-7 U125-7 U239-17 U229-4 U208-7  
213: .ADR 1  
214: U99-9 U125-9 U239-15 U229-2 U208-9  
214: .ADR 2  
215: U99-12 U125-12 U239-13 U227-17 U208-12  
215: .ADR 3  
216: U86-4 U141-4 U239-11 U227-15 U168-4  
216: .ADR 4  
217: U86-7 U141-7 U239-8 U227-13 U168-7  
217: .ADR 5  
218: U86-9 U141-9 U239-6 U227-11 U168-9  
218: .ADR 6  
219: U86-12 U141-12 U239-4 U227-8 U168-12  
219: .ADR 7  
220: U115-6 U239-2 U227-6 .ADR 8  
221: U115-10 U88-14 U152-15 U102-2 U169-14  
221: .ADR SEL 0  
222: U115-9 U88-2 U152-16 U102-3 U169-2  
222: .ADR SEL 1  
223: U205-13 U190-8 .ALAT

224: R25-2 U287-4 U287-5 U285-1	.BANK H
225: U282-9 U270-2	.BLANK CLK
226: U282-14 U271-7 U297-13	.BLANK H
227: U282-15 U296-9	.BLANK L
228: U22-17 U26-3 U10-17 U9-4 U23-4	.BUF MDI 00
229: U36-17 U39-3 U35-17 U61-17 U48-17	
229:	.BUF MDI 01
230: U22-13 U26-5 U10-13 U9-8 U23-8	.BUF MDI 02
231: U36-13 U39-5 U35-13 U61-13 U48-13	
231:	.BUF MDI 03
232: U22-7 U26-7 U10-7 U9-14 U23-14	.BUF MDI 04
233: U36-7 U39-7 U35-7 U61-7 U48-7	.BUF MDI 05
234: U22-3 U26-9 U10-3 U9-18 U23-18	.BUF MDI 06
235: U36-3 U39-9 U35-3 U48-3 U61-3	.BUF MDI 07
236: U22-18 U26-18 U10-18 U23-3 U9-3	.BUF MDI 08
237: U36-18 U39-18 U35-18 U61-18 U48-18	
237:	.BUF MDI 09
238: U22-14 U26-16 U10-14 U9-7 U23-7	.BUF MDI 10
239: U36-14 U39-16 U35-14 U61-14 U48-14	
239:	.BUF MDI 11
240: U22-8 U26-14 U10-8 U9-13 U23-13	.BUF MDI 12
241: U36-8 U39-14 U35-8 U61-8 U48-8	.BUF MDI 13
242: U22-4 U26-12 U10-4 U9-17 U23-17	.BUF MDI 14
243: U36-4 U39-12 U35-4 U61-4 U48-4	.BUF MDI 15
244: U141-13 U128-2	.C ADR 10
245: U125-2 U128-12	.C ADR 11
246: U125-5 U142-23	.C ADR 12
247: U125-11 U142-22	.C ADR 13

248: U125-14 U142-21	.C ADR 14
249: U141-2 U142-20	.C ADR 15
250: U141-5 U142-19	.C ADR 16
251: U141-11 U142-18	.C ADR 17
252: JP8-1 U142-17	.C ADR 18
253: U115-2 U142-16 U169-11	.C ADR 19
254: JP4-1 U114-3 U88-5	.C ADR 2
255: JP7-1 U142-15	.C ADR 20
256: U142-14 U169-5	.C ADR 21
257: U125-3 U114-4	.C ADR 3
258: U125-6 U114-5	.C ADR 4
259: U125-10 U114-6 U114-13	.C ADR 5
260: U125-13 U114-11	.C ADR 6
261: U141-3 U114-10 U128-8	.C ADR 7
262: U141-6 U128-5 U128-6	.C ADR 8
263: U141-10 U128-9	.C ADR 9
264: U154-12 U190-7	.C OUT
265: U139-4 U190-9	.C PAR 1
266: U225-6 U222-11 U223-15 290A-8	.CAS 0 H
267: U225-15 U224-15 290A-10	.CAS 1 H
268: U75-1 U190-11	.CI0
269: U75-12 U190-13	.CI1
270: U75-4 U190-12	.CI2
271: U75-9 U190-14	.CI3
272: U24-12 U24-13 U75-3 U22-11 U35-11	
272:	.CIX 0
273: U24-1 U24-2 U75-11 U10-11 U36-11	

273: .CIX 1  
 274: U24-9 U24-10 U75-6 U9-11 U48-11 .CIX 2  
 275: U24-4 U24-5 U75-8 U23-11 U61-11 .CIX 3  
 276: U75-2 U75-13 U75-10 U75-5 U248-3  
 276: .CLK 0 L  
 277: U143-5 U290-6 U233-5 U178-11 U257-3  
 277: U179-2 U153-2 U152-11 U221-9 U217-11  
 277: U167-11 U207-10 .CLK 0^  
 278: U205-12 U260-4 U260-5 U260-1 U264-5  
 278: U260-2 .CLK 10 L  
 279: U154-11 U264-6 U242-3 U232-3 .CLK 10^  
 280: U139-5 U287-11 U290-3 U248-2 U248-1  
 280: U290-4 U290-5 U287-10 U205-5 .CLK 4 L  
 281: U287-12 U260-6 J176-1 U287-13 U260-3  
 281: .CLK 7  
 \*\*\* Run has multiple outputs  
 282: U254-1 U178-6 .CLK C FIFO EN L  
 283: U73-9 U154-13 U74-11 U49-11 U62-11  
 283: U50-11 U126-11 U113-11 U100-11 U112-11  
 283: .CLK OUT X  
 284: U139-6 U89-11 U63-11 U76-11 .CLK P ADR  
 285: U38-11 U205-6 .CLK PAR ER^  
 286: U254-5 U242-9 .CLK VFIFO ENL  
 287: XC2-2 XC3-2 U274-1 U262-1 U261-1  
 287: U262-13 U261-13 U274-13 XC1-2 XL1-2  
 287: U275-1 U263-13 U275-13 U263-1 U250-1  
 287: U250-13 U276-1 U251-13 U276-13 U251-1  
 287: U264-13 U264-1 U249-1 .CLK66  
 288: U252-18 U277-18 U178-15 U207-2 U207-3  
 288: .CLR FIFOS  
 289: U244-14 U244-11 U244-1 U244-7 U244-2  
 289: .COM  
 290: U143-10 U156-1 U156-19 .CRT SIGS ENB  
 291: U101-10 U127-7 U178-9 .CUR CNTR ENAB H

292: U291-6 U265-5	.CUR DATA 0
293: U291-7 U265-6	.CUR DATA 1
294: U266-5 U265-2	.CUR DATA 2
295: U266-6 U265-9	.CUR DATA 3
296: U266-7 U265-15	.CUR DATA 4
297: U278-5 U265-16	.CUR DATA 5
298: U278-6 U265-12	.CUR DATA 6
299: U278-7 U265-19	.CUR DATA 7
300: U278-1 U266-1 U291-1 U167-6	.CUR ENB H
301: U277-16 U265-11 U252-16 U248-11	.CUR FIFO UNLD
302: U168-13 U194-2	.D ADR 10
303: U208-2 U194-12 U193-8	.D ADR 11
304: U208-5 U193-5 U193-6	.D ADR 12
305: U208-11 U193-9	.D ADR 13
306: U208-14 U193-2	.D ADR 14
307: U168-2 U193-12 U180-8	.D ADR 15
308: U168-5 U180-5 U180-6	.D ADR 16
309: U168-11 U180-9	.D ADR 17
310: JP12-1 U180-2	.D ADR 18
311: U115-15 U169-12 U180-12 U192-8	.D ADR 19
312: JP9-1 U88-4 U181-3	.D ADR 2
313: JP10-1 U192-5 U192-6	.D ADR 20
314: U169-4 U192-9	.D ADR 21
315: U208-3 U181-4	.D ADR 3
316: U208-6 U181-5	.D ADR 4
317: U208-10 U181-6 U181-13	.D ADR 5

318: U208-13 U181-11	.D ADR 6
319: U168-3 U181-10 U194-8	.D ADR 7
320: U168-6 U194-5 U194-6	.D ADR 8
321: U168-10 U194-9	.D ADR 9
322: U280-7 U255-7 U281-7 U268-7 U279-7	
322: U267-7 U294-7 U293-7 R17-2	.DERUNG 80NS CLK
323: U274-11 U286-8	.DIV SYNC
324: U283-14 U296-12 U297-10	.ECL HIGH
325: U141-15 U125-15 U102-5	.EN AB CUR ADR L
326: U86-15 U99-15 U102-7	.ENAB PROC ADR L
327: U102-6 U208-15 U168-15	.ENABDISPL ADR L
328: U51-5 U12-4	.EVEN A
329: U52-5 U12-3	.EVEN B
330: U245-3 U245-7 U245-1	.FOO
331: U238-1 U242-5	.H MEM REQ H
332: U152-2 U153-1 U179-1	.H STATE CLR
333: U156-2 J189-1 U152-5	.H SYNC
334: U143-4 J71-1	.I/O B ENAB L
335: U114-1 U152-9	.INC CUR ADR CNTR L
336: U178-16 U181-1	.INC DISPL ADR CNTR
337: U129-8 U140-9 U152-19	.INC LINE CNTR L
338: U248-4 U155-6 U248-10	.INTR EN L
339: U143-1 J69-1	.IOA 0
340: U143-2 J169-1	.IOA 1
341: U143-3 J68-1	.IOA 2
342: U154-8 J168-1	.IOA 3

343: U154-9 J67-1 .IOA 4  
344: U139-10 J167-1 .IOA 5  
345: U139-9 J66-1 .IOA 6  
346: U129-4 U116-14 U89-12 J64-1 U63-15  
346: U156-18 .IOD 0  
347: U129-10 U116-17 U89-15 J164-1 U63-16  
347: U156-16 .IOD 1  
348: U142-4 U155-14 J58-1 U76-15 U193-3  
348: .IOD 10  
349: U142-5 U155-7 J158-1 U76-6 U193-11  
349: .IOD 11  
350: U142-6 U155-4 J57-1 U76-5 U180-4  
350: .IOD 12  
351: U142-7 U155-3 J157-1 U76-2 U180-10  
351: .IOD 13  
352: U142-8 U155-18 J56-1 U76-19 U180-3  
352: .IOD 14  
353: U142-9 U155-17 J156-1 U76-16 U180-11  
353: .IOD 15  
354: U142-10 U129-3 U116-13 U89-16 J63-1  
354: U63-12 U156-14 U192-4 .IOD 2  
355: U142-11 U129-11 U116-8 U89-19 J163-1  
355: U63-9 U192-10 .IOD 3  
356: U128-4 U103-4 U116-7 J62-1 U63-6  
356: U156-3 U194-4 .IOD 4  
357: U128-10 U103-10 U116-4 J162-1 U63-5  
357: U194-10 .IOD 5  
358: U128-3 U103-3 U116-3 J61-1 U63-2  
358: U194-3 .IOD 6  
359: U128-11 U116-18 J161-1 U63-19 U156-5  
359: U194-11 .IOD 7  
360: U142-2 U155-13 J59-1 U76-12 U193-4  
360: .IOD 8  
361: U142-3 U155-8 J159-1 U76-9 U193-10

361: .IOD 9  
362: U156-15 U165-19 U166-19 U218-3 U243-11  
362: .LAND H  
363: U238-2 U232-5 .LATCHED RAS NOW H  
364: U154-6 U154-5 U142-13 U128-1 U143-13  
364: .LD CUR ADR CNT L  
365: U101-9 U127-9 U152-6 .LD CURX CNTR  
366: U248-6 J84-1 .LINE CNT INT L  
367: U103-12 U248-5 U156-17 .LINE CNT OVERFLOW L  
368: U116-11 U143-11 .LOAD CURSOR X POS  
369: U143-14 U154-3 U154-2 U194-1 U193-1  
369: U180-1 U192-1 .LOAD DIS ADR L  
370: U129-1 U103-1 U143-15 .LOAD LINE CNTR L  
371: U155-11 U143-12 .LOAD VIDEO STATE  
372: R21-2 J186-1 U156-6 .LOOPTHRU  
373: U90-7 J37-1 .MADR 0  
374: U90-8 J137-1 .MADR 1  
375: U64-13 J31-1 .MADR 10  
376: U64-14 J131-1 .MADR 11  
377: U64-17 J29-1 .MADR 12  
378: U64-18 J129-1 .MADR 13  
379: U77-3 J28-1 .MADR 14  
380: U77-4 J128-1 .MADR 15  
381: U77-7 J27-1 .MADR 16  
382: U77-8 J127-1 .MADR 17  
383: U77-13 J26-1 .MADR 18  
384: U77-14 J126-1 .MADR 19  
385: U90-13 J36-1 .MADR 2

386: U77-17 J38-1	.MADR 20
387: U77-18 J138-1	.MADR 21
388: U90-14 J136-1	.MADR 3
389: U90-17 J34-1	.MADR 4
390: U90-18 J134-1	.MADR 5
391: U64-3 J33-1	.MADR 6
392: U64-4 J133-1	.MADR 7
393: U64-7 J32-1	.MADR 8
394: U64-8 J132-1	.MADR 9
395: U278-4 U291-4 U266-4 U140-7	.MAP 0
396: U278-3 U291-3 U266-3 U140-10	.MAP 1
397: U278-2 U291-2 U266-2 U140-12	.MAP 2
398: U291-12 U292-3	.MAP OUT 0
399: U291-11 U292-4	.MAP OUT 1
400: U266-13 U292-7	.MAP OUT 2
401: U266-12 U292-8	.MAP OUT 3
402: U266-11 U292-13	.MAP OUT 4
403: U278-13 U292-14	.MAP OUT 5
404: U278-12 U292-17	.MAP OUT 6
405: U278-11 U292-18	.MAP OUT 7
406: U13-13 J14-1 U26-17	.MDI 00
407: U25-4 J114-1 U39-17	.MDI 01
408: U25-8 J13-1 U26-15	.MDI 02
409: U25-11 J113-1 U39-15	.MDI 03
410: U13-12 J12-1 U26-13	.MDI 04
411: U13-2 J112-1 U39-13	.MDI 05

412: U13-11 J11-1 U26-11 .MDI 06  
413: U25-2 J111-1 U39-11 .MDI 07  
414: U13-10 J9-1 U26-2 .MDI 08  
415: U25-10 J109-1 U39-2 .MDI 09  
416: U25-9 J8-1 U26-4 .MDI 10  
417: U13-4 J108-1 U39-4 .MDI 11  
418: U13-9 J7-1 U26-6 .MDI 12  
419: U25-12 J107-1 U39-6 .MDI 13  
420: U13-8 J6-1 U26-8 .MDI 14  
421: U25-13 J106-1 U39-8 .MDI 15  
422: U52-2 U49-2 U50-2 U113-2 U100-2 J24-1  
422: .MDO 0  
423: U51-2 U62-2 U74-2 U126-2 U112-2 J124-1  
423: .MDO 1  
424: U52-10 U49-9 U50-9 U113-9 U100-9  
424: J18-1 .MDO 10  
425: U51-10 U62-9 U74-9 U126-9 U112-9  
425: J118-1 .MDO 11  
426: U52-9 U49-16 U50-16 U113-16 U100-16  
426: J17-1 .MDO 12  
427: U51-9 U62-16 U74-16 U126-16 U112-16  
427: J117-1 .MDO 13  
428: U52-8 U49-12 U50-12 U113-12 U100-12  
428: J16-1 .MDO 14  
429: U51-8 U62-12 U74-12 U126-12 U112-12  
429: J116-1 .MDO 15  
430: U52-1 U49-6 U50-6 U113-6 U100-6 J23-1  
430: .MDO 2  
431: U51-13 U62-6 U74-6 U126-6 U112-6  
431: J123-1 .MDO 3  
432: U52-13 U49-19 U50-19 U113-19 U100-19

432: J22-1 .MDO 4  
433: U51-12 U62-19 U74-19 U126-19 U112-19  
433: J122-1 .MDO 5  
434: U52-12 U49-15 U50-15 U113-15 U100-15  
434: J21-1 .MDO 6  
435: U52-4 U62-15 U74-15 U126-15 U112-15  
435: J121-1 .MDO 7  
436: U52-11 U49-5 U50-5 U113-5 U100-5  
436: J19-1 .MDO 8  
437: U51-11 U62-5 U74-5 U126-5 U112-5  
437: J119-1 .MDO 9  
438: U190-6 J141-1 .MDO VALID H  
439: J181-1 U221-13 .MEM RQST 0  
440: J182-1 U221-4 .MEM RQST 1  
441: J183-1 U221-5 .MEM RQST 2  
442: U293-13 U253-3 .MEMSHIFT 0  
443: U294-13 U253-4 .MEMSHIFT 1  
444: U279-13 U253-7 .MEMSHIFT 2  
445: U267-13 U253-8 .MEMSHIFT 3  
446: U268-13 U253-13 .MEMSHIFT 4  
447: U281-13 U253-14 .MEMSHIFT 5  
448: U255-13 U253-17 .MEMSHIFT 6  
449: U280-13 U253-18 .MEMSHIFT 7  
450: U291-16 U253-2 U252-4 .MSP0  
451: U291-15 U253-5 U277-5 .MSP1  
452: U266-17 U253-6 U252-5 .MSP2  
453: U266-16 U253-9 U277-6 .MSP3  
454: U266-15 U253-12 U252-6 .MSP4  
455: U278-17 U253-15 U277-7 .MSP5

456: U278-16 U253-16 U252-7	.MSP6
457: U278-15 U253-19 U277-8	.MSP7
458: U102-14 U87-14 U204-9	.0 SEL 0
459: U102-13 U87-2 U204-8	.0 SEL 1
460: U51-6 U12-2	.ODD A
461: U52-6 U12-5	.ODD B
462: U254-13 U217-6 U190-5 U204-5	.OLD READ 0
463: U254-12 U217-9 U190-16 U204-16	.OLD READ 1
464: U102-12 U74-1 U50-1	.OUT ENAB W0
465: U102-11 U49-1 U62-1	.OUT ENAB W1
466: U102-10 U100-1 U112-1	.OUT ENAB W2
467: U102-9 U113-1 U126-1	.OUT ENAB W3
468: U90-6 U190-4 U204-4	.P ADR 0
469: U90-9 U190-3 U204-3	.P ADR 1
470: U86-13 U64-12 U76-13	.P ADR 10
471: U99-2 U64-15 U76-8	.P ADR 11
472: U99-5 U64-16 U76-14	.P ADR 12
473: U99-11 U64-19 U76-7	.P ADR 13
474: U99-14 U77-2 U76-4	.P ADR 14
475: U86-2 U77-5 U76-3	.P ADR 15
476: U77-6 U86-5 U76-18	.P ADR 16
477: U86-11 U77-9 U76-17	.P ADR 17
478: JP2-1 U77-12 U89-13	.P ADR 18
479: U115-13 U77-15 U89-14 U169-13	.P ADR 19
480: JP5-1 U90-12 U88-3 U63-14	.P ADR 2
481: JP3-1 U77-16 U89-17	.P ADR 20

482: U77-19 U89-18 U169-3	.P ADR 21
483: U99-3 U90-15 U63-17	.P ADR 3
484: U99-6 U90-16 U63-13	.P ADR 4
485: U99-10 U90-19 U63-8	.P ADR 5
486: U99-13 U64-2 U63-7	.P ADR 6
487: U86-3 U64-5 U63-4	.P ADR 7
488: U86-6 U64-6 U63-3	.P ADR 8
489: U86-10 U64-9 U63-18	.P ADR 9
490: U12-6 U38-12	.PAR ER H
491: U248-8 J83-1	.PAR INTR L
492: U178-5 U243-10	.PC BLANK L
493: U285-8 U261-3	.PH<0>
494: U261-5 U262-3 U261-2 U285-4 U285-2	
494: U238-10	.PH<1>
495: U274-3 U262-5 U262-2	.PH<2>
496: U274-5 U275-3 U274-2 U251-11	.PH<3>
497: U275-2 U263-3 U275-5 U238-12 U260-12	
497: U273-12 U260-13	.PH<4>
498: U263-5 U250-3 U263-2 U247-2 U247-5	
498: U264-3	.PH<5>
499: U250-2 U250-11 U250-5 U238-9	.PH<6>
500: U263-11 U250-9 U250-12	.PH<7>
501: U263-12 U275-11 U263-9	.PH<8>
502: U275-12 U275-9 U273-9 U238-13 U264-2	
502:	.PH<9>
503: U195-3 U258-9 U270-13	.PLL CLK
504: U11-13 U37-4 U37-10 U37-1 U37-13	
504: R1-2 U11-4 U11-1 U11-10	.PU 1

505: U262-10 U274-14 U261-14 U274-10 R22-2  
505: U262-15 U274-4 U261-15 U262-4 U274-15  
505: U261-4 U262-14 U261-10 .PU 10

506: U276-10 U276-15 U249-15 U251-4 R24-2  
506: U276-4 U276-14 U251-10 U249-4 U251-14  
506: U264-10 U264-15 U264-4 U251-15 U264-14  
506: .. .PU 11

507: U167-1 U242-13 U242-10 U241-14 U153-10  
507: U242-4 U257-1 U242-1 U257-4 U179-9  
507: U153-9 U241-11 U241-12 R19-2 U241-10  
507: U232-1 U232-4 U221-1 U167-10 U167-13  
507: U257-13 U256-10 U256-4 U256-3 U256-2  
507: U269-9 U257-10 .PU 12

508: R8-2 U194-13 U193-13 U180-13 U192-13  
508: .PU 14

509: R20-2 U246-6 U230-4 U230-10 U230-1  
509: U230-13 U207-1 U207-9 U243-6 .PU 16

510: R12-2 U39-19 U26-19 U73-1 U268-9  
510: U281-9 U280-9 U255-9 U293-9 U279-9  
510: U267-9 U294-9 .PU 2

511: U128-13 U103-13 U129-13 R6-2 U103-11  
511: U127-10 U140-1 U127-1 U101-1 .PU 5

512: R23-2 U288-15 U288-1 U288-4 U275-4  
512: U275-14 U263-14 U275-10 U263-10 U250-14  
512: U250-10 U250-15 U250-4 U263-15 U263-4  
512: U275-15 .PU 9

513: U225-11 U224-11 290A-2 .RAS 0 H

514: 290A-4 .RAS 1 H  
\*\*\* Only one pin in net

515: U217-5 U217-3 .RAS CY 1

516: U254-9 U217-2 .RAS CY 2

517: U232-2 J184-1 U221-12 .RAS NOW

518: U143-9 U89-1 .READ HI PAR L

519: U143-7 U38-13 U63-1 U76-1 .READ LO PAR L

520: U243-1 U271-6 .RESYNC SYNC

521: U233-9 U247-4 .SEL CAS 0 H

\*\*\* Run Has no outputs

522: U99-1 U86-1 U115-11 U125-1 U141-1	
522: U273-3 U168-1 U208-1	.SEL ROW H
523: U130-3 U257-8 U243-7	.SYNC WIND H
524: U257-9 U256-15 U269-1 U256-14	.SYNC WIND L
525: J78-1 THM1-2	.TEMP CAGE
526: U233-2 J173-1	.TIME 0
527: U233-4 J174-1	.TIME 1
528: J89-1 R9-2	.V SYNC
529: U156-4 U178-2 R9-1	.V SYNC H
530: XB1-1 VR3-3 XB4-1 C11-1 C5-2 C17-2	
530: C15-1 C14-1 U195-7 U195-8	.VEE
531: U292-2 U206-4	.VFIFO IN0
532: U292-5 U206-5	.VFIFO IN1
533: U292-6 U206-6	.VFIFO IN2
534: U292-9 U206-7	.VFIFO IN3
535: U292-12 U231-4	.VFIFO IN4
536: U292-15 U231-5	.VFIFO IN5
537: U292-16 U231-6	.VFIFO IN6
538: U292-19 U231-7	.VFIFO IN7
539: U254-6 U230-2	.VFIFO INCLK
540: U287-3 U230-3 U230-11 U243-5	.VIDCLK66
541: U220-1 U244-12	.VIDMUX SEL
542: U295-6 U295-3 J91-1	.VIDOUT
*** Run has multiple outputs	
543: U219-11 U244-5	.VIDREG CLK
544: U259-4 282A-9 U296-13 U284-9 U270-15	
544:	.VIDSHF CLK

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545: U259-10 U243-12 282A-2 U297-3 .VIDSHF LD  
\*\*\* Run has multiple outputs

546: U230-9 U206-3 U231-3 .VIDSIC CLK

547: U231-15 U206-15 U244-4 .VIDSOC CLK  
\*\*\* Run has multiple outputs

548: U273-10 U273-13 U166-1 U165-1 U179-7  
548: U153-7 U233-1 U241-9 U190-1 U204-1 .VIDTIME 0

549: U153-14 U233-3 U166-2 U165-2 U257-2 .VIDTIME 1

549: U190-2 U204-2 .VRT ST 0

550: U140-15 U191-5 U191-13 U191-10 .VRT ST 1

551: U140-5 U191-2 .VRT ST 1

552: U239-16 U53-5 U65-5 U78-5 U91-5 U196-5  
552: U182-5 U170-5 U157-5 U144-5 U131-5  
552: U117-5 U104-5 U209-5 U40-5 U27-5  
552: U14-5 U1-5 U55-5 U67-5 U80-5 U93-5  
552: U198-5 U184-5 U172-5 U159-5 U146-5  
552: U133-5 U119-5 U106-5 U211-5 U42-5  
552: U29-5 U16-5 U3-5 .W0 A0 A L

553: U239-14 U53-7 U65-7 U78-7 U91-7 U196-7  
553: U182-7 U170-7 U157-7 U144-7 U131-7  
553: U117-7 U104-7 U209-7 U40-7 U27-7  
553: U14-7 U1-7 U55-7 U67-7 U80-7 U93-7  
553: U198-7 U184-7 U172-7 U159-7 U146-7  
553: U133-7 U119-7 U106-7 U211-7 U42-7  
553: U29-7 U16-7 U3-7 .W0 A1 A L

554: U239-12 U53-6 U65-6 U78-6 U91-6 U196-6  
554: U182-6 U170-6 U157-6 U144-6 U131-6  
554: U117-6 U104-6 U209-6 U40-6 U27-6  
554: U14-6 U1-6 U55-6 U67-6 U80-6 U93-6  
554: U198-6 U184-6 U172-6 U159-6 U146-6  
554: U133-6 U119-6 U106-6 U211-6 U42-6  
554: U29-6 U16-6 U3-6 .W0 A2 A L

555: U239-9 U53-14 U65-14 U78-14 U91-14  
555: U196-14 U182-14 U170-14 U157-14 U144-14  
555: U131-14 U117-14 U104-14 U209-14 U40-14  
555: U27-14 U14-14 U1-14 U55-14 U67-14  
555: U80-14 U93-14 U198-14 U184-14 U172-14  
555: U159-14 U146-14 U133-14 U119-14 U106-14  
555: U211-14 U42-14 U29-14 U16-14 U3-14  
555: .W0 A3 A L

556: U239-7 U53-13 U65-13 U78-13 U91-13  
556: U196-13 U182-13 U170-13 U157-13 U144-13  
556: U131-13 U117-13 U104-13 U209-13 U40-13  
556: U27-13 U14-13 U1-13 U55-13 U67-13  
556: U80-13 U93-13 U198-13 U184-13 U172-13  
556: U159-13 U146-13 U133-13 U119-13 U106-13  
556: U211-13 U42-13 U29-13 U16-13 U3-13

556: .W0 A4 A L

557: U239-5 U53-12 U65-12 U78-12 U91-12  
557: U196-12 U182-12 U170-12 U157-12 U144-12  
557: U131-12 U117-12 U104-12 U209-12 U40-12  
557: U27-12 U14-12 U1-12 U55-12 U67-12  
557: U80-12 U93-12 U198-12 U184-12 U172-12  
557: U159-12 U146-12 U133-12 U119-12 U106-12  
557: U211-12 U42-12 U29-12 U16-12 U3-12

557: .W0 A5 A L

558: U239-3 U53-15 U65-15 U78-15 U91-15  
558: U196-15 U182-15 U170-15 U157-15 U144-15  
558: U131-15 U117-15 U104-15 U209-15 U40-15  
558: U27-15 U14-15 U1-15 U172-15 U184-15  
558: U198-15 U93-15 U80-15 U67-15 U55-15  
558: U42-15 U29-15 U16-15 U3-15 U159-15  
558: U146-15 U133-15 U119-15 U106-15 U211-15

558: .W0 A6 A L

559: U222-5 U53-11 U65-11 U78-11 U91-11  
559: U196-11 U182-11 U170-11 U157-11 U144-11  
559: U131-11 U117-11 U104-11 U209-11 U40-11  
559: U27-11 U14-11 U1-11 U55-11 U67-11  
559: U80-11 U93-11 U198-11 U184-11 U172-11  
559: U159-11 U146-11 U133-11 U119-11 U106-11  
559: U211-11 U42-11 U29-11 U16-11 U3-11

559: .W0 A7 A L

560: U239-18 U53-1 U65-1 U78-1 U91-1 U196-1  
560: U182-1 U170-1 U157-1 U144-1 U131-1  
560: U117-1 U104-1 U209-1 U40-1 U27-1  
560: U14-1 U1-1 U55-1 U67-1 U80-1 U93-1  
560: U198-1 U184-1 U172-1 U159-1 U146-1  
560: U133-1 U119-1 U106-1 U211-1 U42-1  
560: U29-1 U16-1 U3-1

.W0 A8 A L

561: U222-9 .W0 CAS OA L

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562: U22-16 U1-2 .W0 IN<0>

563: U22-15 U131-2 .W0 IN<10>

564: U35-15 U144-2 .W0 IN<11>

565: U22-9 U157-2	.WO IN<12>
566: U35-9 U170-2	.WO IN<13>
567: U22-5 U182-2	.WO IN<14>
568: U35-5 U196-2	.WO IN<15>
569: U35-16 U14-2	.WO IN<1>
570: U22-12 U27-2	.WO IN<2>
571: U35-12 U40-2	.WO IN<3>
572: U22-6 U53-2	.WO IN<4>
573: U35-6 U65-2	.WO IN<5>
574: U22-2 U78-2	.WO IN<6>
575: U35-2 U91-2	.WO IN<7>
576: U22-19 U104-2	.WO IN<8>
577: U35-19 U117-2	.WO IN<9>
578: U50-3 U293-12 U1-16	.WO OUT<0>
579: U50-8 U279-14 U131-16	.WO OUT<10>
580: U74-8 U267-14 U144-16	.WO OUT<11>
581: U50-17 U268-14 U157-16	.WO OUT<12>
582: U74-17 U281-14 U170-16	.WO OUT<13>
583: U50-13 U255-14 U182-16	.WO OUT<14>
584: U74-13 U280-14 U196-16	.WO OUT<15>
585: U74-3 U294-12 U14-16	.WO OUT<1>
586: U50-7 U279-12 U27-16	.WO OUT<2>
587: U74-7 U267-12 U40-16	.WO OUT<3>
588: U50-18 U268-12 U53-16	.WO OUT<4>
589: U74-18 U281-12 U65-16	.WO OUT<5>
590: U50-14 U255-12 U78-16	.WO OUT<6>

591: U74-14 U280-12 U91-16 .W0 OUT<7>  
 592: U50-4 U293-14 U104-16 .W0 OUT<8>  
 593: U74-4 U294-14 U117-16 .W0 OUT<9>  
 594: U37-9 U209-2 .W0 PAR IN  
 595: U73-5 U209-16 .W0 PAR OUT  
 596: U222-18 U1-3 U104-3 U40-3 U144-3  
 596: U27-3 U131-3 U14-3 U117-3 U78-3 U182-3  
 596: U65-3 U170-3 U53-3 U157-3 U209-3  
 596: U91-3 U196-3 .W0 WRITE A L  
 597: U223-5 U78-10 U65-10 U53-10 U40-10  
 597: U27-10 U14-10 U1-10 U91-10 U196-10  
 597: U182-10 U170-10 U157-10 U144-10 U131-10  
 597: U117-10 U104-10 U209-10 U211-10 U106-10  
 597: U119-10 U133-10 U146-10 U159-10 U172-10  
 597: U184-10 U198-10 U93-10 U80-10 U67-10  
 597: U55-10 U42-10 U29-10 U16-10 U3-10  
 597: .W1 CAS OA L  
 598: U224-5 U53-17 U65-17 U78-17 U91-17  
 598: U196-17 U182-17 U170-17 U157-17 U144-17  
 598: U131-17 U117-17 U104-17 U209-17 U40-17  
 598: U27-17 U14-17 U1-17 U55-17 U67-17  
 598: U80-17 U93-17 U198-17 U184-17 U172-17  
 598: U159-17 U146-17 U133-17 U119-17 U106-17  
 598: U211-17 U42-17 U29-17 U16-17 U3-17  
 598: .W1 CAS 1A L  
 599: U10-16 U3-2 .W1 IN<0>  
 600: U10-15 U133-2 .W1 IN<10>  
 601: U36-15 U146-2 .W1 IN<11>  
 602: U10-9 U159-2 .W1 IN<12>  
 603: U36-9 U172-2 .W1 IN<13>  
 604: U10-5 U184-2 .W1 IN<14>  
 605: U36-5 U198-2 .W1 IN<15>  
 606: U36-16 U16-2 .W1 IN<1>  
 607: U10-12 U29-2 .W1 IN<2>

608: U36-12 U42-2	.W1 IN<3>
609: U10-6 U55-2	.W1 IN<4>
610: U36-6 U67-2	.W1 IN<5>
611: U10-2 U80-2	.W1 IN<6>
612: U36-2 U93-2	.W1 IN<7>
613: U10-19 U106-2	.W1 IN<8>
614: U36-19 U119-2	.W1 IN<9>
615: U49-3 U293-10 U3-16	.W1 OUT<0>
616: U49-8 U279-11 U133-16	.W1 OUT<10>
617: U62-8 U267-11 U146-16	.W1 OUT<11>
618: U49-17 U268-11 U159-16	.W1 OUT<12>
619: U62-17 U281-11 U172-16	.W1 OUT<13>
620: U49-13 U255-11 U184-16	.W1 OUT<14>
621: U62-13 U280-11 U198-16	.W1 OUT<15>
622: U62-3 U294-10 U16-16	.W1 OUT<1>
623: U49-7 U279-10 U29-16	.W1 OUT<2>
624: U62-7 U267-10 U42-16	.W1 OUT<3>
625: U49-18 U268-10 U55-16	.W1 OUT<4>
626: U62-18 U281-10 U67-16	.W1 OUT<5>
627: U49-14 U255-10 U80-16	.W1 OUT<6>
628: U62-14 U280-10 U93-16	.W1 OUT<7>
629: U49-4 U293-11 U106-16	.W1 OUT<8>
630: U62-4 U294-11 U119-16	.W1 OUT<9>
631: U37-5 U211-2	.W1 PAR IN
632: U73-12 U211-16	.W1 PAR OUT
633: U224-9 U78-4 U65-4 U53-4 U40-4 U27-4	
633: U14-4 U1-4 U91-4 U196-4 U182-4 U170-4	

633: U157-4 U144-4 U131-4 U117-4 U104-4	
633: U209-4 U196-9 U182-9 U170-9 U157-9	
633: U144-9 U131-9 U117-9 U104-9 U209-9	
633: U91-9 U78-9 U65-9 U53-9 U40-9 U27-9	
633: U14-9 U1-9 U55-9 U67-9 U80-9 U93-9	
633: U198-4 U184-4 U172-4 U159-4 U146-4	
633: U133-4 U119-4 U106-4 U211-4 U198-9	
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670: U20-5 U7-5 U150-5 U137-5 U123-5 U110-5	
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673: U31-14 U18-14 U5-14 U163-14 U176-14

673: U188-14 U202-14 U97-14 U84-14 U71-14

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676: U188-15 U202-15 U97-15 U84-15 U71-15

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677: U121-11 U108-11 U213-11 U163-11 U176-11

677: U188-11 U202-11 U97-11 U84-11 U71-11

677: U59-11 U46-11 U33-11 U20-11 U7-11

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679: U137-10 U150-10 U163-10 U176-10 U188-10

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679: U46-10 U33-10 U20-10 U7-10 U215-10

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680: U135-17 U121-17 U108-17 U213-17 U44-17

680: U31-17 U18-17 U5-17 U163-17 U176-17

680: U188-17 U202-17 U97-17 U84-17 U71-17

680: U59-17 U46-17 U33-17 U20-17 U7-17

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686: U23-16 U188-2 .W3 IN<14>

687: U61-5 U202-2 .W3 IN<15>

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715: U174-9 U161-9 U148-9 U135-9 U121-9	
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715: U18-9 U5-9 U163-4 U176-4 U188-4 U202-4	

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715: U46-9 U33-9 U20-9 U7-9 U202-9 U188-9  
715: U176-9 U163-9 U150-9 U137-9 U123-9  
715: U110-9 U215-9 U150-4 U137-4 U123-4  
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716: U7-3 U110-3 .W3 WRITE A L

717: U222-2 U217-19 .WRITE 0 H

718: U223-6 U217-16 .WRITE 1 H

719: U234-6 U217-15 .WRITE 2 H

720: U228-13 U217-12 .WRITE 3 H

721: U25-1 U155-5 .WRITE BAD PARITY